



कार्यालय, नगर निगम मधुबनी

(Email-madhubaninagarnigam@gmail.com, madhubaninagarparishad@gmail.com)



पत्रांक..1039/ न0नि0,

प्रेषक :-

नगर आयुक्त
नगर निगम, मधुबनी

सेवा में,

निदेशक
सूचना एवं जन सम्पर्क विभाग
बिहार, पटना।

मधुबनी, दिनांक.13/05/26

विषय:- संलग्न पूर्ण-निविदा सं0-16/2025-26 प्रकाशन के सम्बन्ध में।


महाशय,

उपरोक्त विषय के सम्बन्ध में सूचित करना है कि संलग्न पूर्ण-निविदा सं0 16/2025-26 को किसी दैनिक समाचार पत्र में प्रकाशन करना आवश्यक है।

अतः अनुरोध है कि संलग्न सूचना को दैनिक समाचार पत्र में प्रकाशन करने की कृपा की जाय।

अनु0:- पूर्ण-निविदा विज्ञापन सं0-16/2025-26 की मूलप्रति।

विश्वासभाजन


13/05/26
नगर आयुक्त
नगर निगम, मधुबनी

NOTICE INVITING REQUEST FOR PROPOSAL (RFP)

MADHUBANI NAGAR NIGAM

RE-NIT No- 16/2025-26

Online bids are hereby invited on behalf of Municipal Commissioner, Madhubani

Name of Work WARD 1-45	Estimated Project Cost (In Cr.)	Bid Security / EMD	Performance Security	RFP Document Fee
DOOR TO DOOR COLLECTION, SEGREGATION OF MUNICIPAL SOLID WASTE (MSW) FROM EACH RESIDENTIAL AND COMMERCIAL ESTABLISHMENT & TRANSPORTATION TO THE TRANSFER STATIONS / PROCESSING SITE INCLUDING MANUAL ROAD SWEEPING IN MUNICIPAL CORPORATION MADHUBANI FOR FOUR (4) YEARS WARD 1-45)	81,60,00,000	1,63,20,000 (2%)	5% of the Contract Amount. (After LOA/Agreement)	INR 10,000/- Only + GST

The MUNICIPAL CORPORATION would endeavour to adhere to the following schedule;

S.No.	MC Stage	Contractor Stage	Start Date & Time	Expiry Date & Time	Stage(s)
1	Release of Tender	13.05.2026			
2		Tender Download	29.05.2026 11:00AM	18.06.2026 03:00 PM	
3	Pre-Bid Meeting		03.06.2026 12:30 PM	03.06.2026 02:00 PM	
4		Submit Bid(s) Online	29.05.2026 11:00AM	18.06.2026 03:00 PM	• Bid Security/EMD; • Technical Bid; • Financial Bid.
5	Submission of Physical Hard of Proof of Bid Security/EMD, Power of Attorney and Affidavits in original			22.06.2026 05:00 PM	from Invitation of Bid(s); prior to Opening of Bid(s): Pre- Qualification/Technical Bid(s)
5	Open EMD & Technical Bid/PQ Bid			24.06.2026 03:00 PM	• Bid Security/EMD, POA Envelope, Technical Bid Envelope.

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IMPORTANT NOTE:

1. RFP documents can be seen on and downloaded from the portal: eproc2 by the eligible entities registered on the portal.
2. As applicable RFP Document Fee has to be paid through RTGS/NEFT during the "Downloading of RFP Document & Payment of RFP Document Fees" in favour of "Municipal Corporation, MADHUBANI BIHAR);
As the Bids are to be submitted online and are required to be encrypted and digitally signed, the Bidder(s) are advised to obtain a Digital Signature Certificate (DSC) at the earliest, as per the process mentioned in the RFP document.
3. Possession of DSC and registration of the Bidder(s) on the portal i.e. <http://eproc2.com> is a prerequisite for e-tendering.
4. The NIT may be postponed or cancelled at any time due to administrative reasons and no claim shall be entertained on this account.

For further details and e-tendering schedule, visit website [http://eproc2 .com](http://eproc2.com)


13/05/26
Municipal Commissioner
Municipal Corporation, Madhubani

Request for Proposal through e-procurement from reputed entities for:

DOOR TO DOOR COLLECTION, SEGREGATION OF MUNICIPAL SOLID WASTE (MSW) FROM EACH RESIDENTIAL AND COMMERCIAL ESTABLISHMENTS & TRANSPORTATION TO THE TRANSFER STATIONS/PROCESSING SITE INCLUDING MANUAL ROAD SWEEPING IN MUNICIPAL CORPORATION, MADHUBANI FOR Four (4) YEARS

**MADHUBANI MUNICIPAL CORPORATION
<<MADHUBANI MUNICIPAL CORPORATION>>**

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NOTICE INVITING REQUEST FOR PROPOSAL (RFP)

MUNICIPAL CORPORATION, MADHUBANI BIHAR

No. _____

DATED: _____

Online bids are hereby invited on behalf of Municipal Commissioner, Madhubani

Name of Work WARD 1-45	Estimated Project Cost (In Cr.)	Bid Security / EMD	Performance Security	RFP Document Fee
DOOR TO DOOR COLLECTION, SEGREGATION OF MUNICIPAL SOLID WASTE (MSW) FROM EACH RESIDENTIAL AND COMMERCIAL ESTABLISHMENT & TRANSPORTATION TO THE TRANSFER STATIONS / PROCESSING SITE INCLUDING MANUAL ROAD SWEEPING IN MUNICIPAL CORPORATION MADHUBANI FOR FOUR (4) YEARS WARD 1-45)	81,60,00,000	1,63,20,000 (2%)	5% of the Contract Amount. (After LOA/Agreement)	INR 10,000/- Only + GST

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IMPORTANT NOTE:

1. RFP documents can be seen on and downloaded from the portal: eproc2 by the eligible entities registered on the portal.
2. As applicable RFP Document Fee has to be paid through RTGS/NEFT during the "Downloading of RFP Document & Payment of RFP Document Fees" in favour of "Municipal Corporation, MADHUBANI BIHAR";
As the Bids are to be submitted online and are required to be encrypted and digitally signed, the Bidder(s) are advised to obtain a Digital Signature Certificate (DSC) at the earliest, as per the process mentioned in the RFP document.
3. Possession of DSC and registration of the Bidder(s) on the portal i.e. <http://eproc2.com> is a prerequisite for e-tendering.
4. The NIT may be postponed or cancelled at any time due to administrative reasons and no claim shall be entertained on this account.

For further details and e-tendering schedule, visit website <http://eproc2.com>

-Sd-

(Municipal Corporation, MADHUBANI BIHAR)

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DISCLAIMER

1. The information contained in this Request for Proposal document (the "RFP") or subsequently provided to Bidder(s), whether verbally or in documentary or any other form, by or on behalf of MUNICIPAL CORPORATION or any of its employees or advisors, is provided to Bidder(s) on the terms and conditions set out in this RFP and such other terms and conditions subject to which such information is provided.
2. This RFP is not an agreement and is neither an offer nor invitation by Municipal Corporation to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in making their key submissions, technical bid and financial bid pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by Municipal Corporation in relation to the Project.
3. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for Municipal Corporation, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in this RFP may not be complete, accurate, adequate or correct. Each Bidder should therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP and obtain independent advice from appropriate sources on its own.
4. Information provided in this RFP to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or **authoritative** statement of law. MC accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.
5. The Municipal Corporation, its employees and advisors, make no representation or warranty and shall have no liability to any person, including any Bidder, under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way with pre-qualification of Bidders for participation in the Bidding Process.
6. The Municipal Corporation also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this RFP.
7. The Municipal Corporation may, in its absolute discretion but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this RFP.
8. The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the MUNICIPAL CORPORATION or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and the MC shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

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DEFINITIONS

The words and expressions beginning with capital letters and defined in this RFP shall, unless repugnant to the context, have the meaning as ascribed herein. The words and expressions beginning with capital letters but not defined herein, but defined in the Contract Agreement, shall, unless repugnant to the context, have the meaning ascribed thereto therein. The under mentioned words and expressions used in this RFP shall have the meaning set out below:

Applicable Law	Shall mean all laws, acts, ordinances, rules, regulations, notifications, guidelines brought into force and effect by the Government of India or the State Government of BIHAR, including rules, regulations, notifications including SWM Rules 2024 (will be effective from 1 Oct 2025), SWM Rules 2016, PWM Rules 2016, E-waste Management Rules 2022, CPCB Guidelines , as amended from time to time and judgments, decrees, injunctions, writs and orders of any court of record including directions issued by Hon'ble NGT from time to time, as may be in force and effect during the subsistence of the Contract Agreement.
Applicable Permits	Shall mean all clearances, licenses, permits, authorisations, no objection certificates, consents, approvals including environment clearance etc. from the statutory authorities and exemptions required to be obtained or maintained under Applicable Laws in connection with the services, construction, operation and maintenance of the Project during the subsistence of the Contract Agreement.
Contract Agreement	Shall mean the agreement to be executed by the Bidder with the Municipal Corporation for discharging obligations related to the Project and includes any amendment or modification made to the said agreement in accordance with the provisions thereof.
Contract Period	Shall mean the period of Four (04) years, commencing from the date of the execution of the Contract Agreement with 1 year extendable with mutual consent on satisfactory performance.
Contractor/Agency	Shall mean the Selected Bidder to implement the Project and sign the Contract Agreement with the Municipal Corporation.
"Commercial Operations Date" or "COD"	Means the date when the Door to Door waste collection, segregation, transportation starts, pursuant to the provisions of the Contract Agreement i.e. 30 days from issuance of LOA.
MSW or Municipal Solid Waste or Waste or Solid Waste	Shall mean the Municipal Solid Waste as described under the Solid Waste Management Rules, 2016, SWM Rules 2024 (or as amended time to time) & SWM By-Laws of Municipal Corporations / Govt. of Bihar.
Project	DOOR TO DOOR COLLECTION, SEGREGATION OF MUNICIPAL SOLID WASTE (MSW) FROM EACH RESIDENTIAL AND COMMERCIAL ESTABLISHMENT & TRANSPORTATION TO THE TRANSFER STATIONS/PROCESSING SITE INCLUDING MANUAL ROAD SWEEPING IN MUNICIPAL CORPORATION MADHUBANI FOR FOUR YEARS

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Project Area	Shall mean the municipal areas under the MC including areas under Housing Board, Licensed Colonies, etc. or any other area defined/included by the MC.
Project Price Escalation	Annual increment of 4 % from 2 year of COD.
Selected Bidder	Shall mean the Bidder that has been issued the Letter of Award (LOA) by the MC for the Project.
SWM Rules	Shall mean the Solid Waste Management Rules, 2016 framed by the Government of India under the Environment (Protection) Act, 1986 (Act 29 of 1986) and Solid Waste Management Rules, 2024, which will be effective from 1 Oct 2025.
MUNICIPAL CORPORATION	Shall mean the Urban Local Bodies operating in MADHUBANI of the State of BIHAR.
User Charges / User Fee	Shall mean a Fee Notified by the Government of Bihar and MC from time to time imposed upon the Waste Generator in the Project Area.
Waste Generator	Shall mean persons or establishments generating MSW within the jurisdiction of the Municipal Corporation.

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1. INTRODUCTION

1.1 PROJECT BACKGROUND

MC MADHUBANI (the MUNICIPAL CORPORATION MADHUBANI) has initiated the online bidding process for selection of Bidder (Contractor/Agency) and for providing the services detailed in the Contract Agreement (hereinafter referred to as "Project"). The (MADHUBANI) MC has decided to carry out the Bidding Process (defined hereinafter) for the selection of the Bidder to whom the Project may be awarded.

Madhubani Municipal Corporation – The Madhubani Municipal Corporation was established on the 15th August 1952, in accordance with The Madhubani Municipal Corporation Act, 1951, which was published in the Bihar Gazettes Extraordinary No. _____.

The Madhubani Municipal Corporation is divided into 45 wards, which shall be managed through circles:

Circles	Total No. of Wards	Wards

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1.1.2. The brief particulars of the Project are as follows:

Name of the Project	Estimated Project Cost (INR, in Cr.)	No. of Establishments
DOOR TO DOOR COLLECTION, SEGREGATION OF MUNICIPAL SOLID WASTE (MSW) FROM EACH RESIDENTIAL AND COMMERCIAL ESTABLISHMENT & TRANSPORTATION TO THE /TRANSFER STATIONS/PROCESSING SITE INCLUDING MANUAL ROAD SWEEPING IN MUNICIPAL CORPORATION MADHUBANI FOR FOUR YEARS	81,60,00,000	48490

TABLE "A"		
S. No.	Property Description	No. of Establishments
(a)	RESIDENTIAL	
1	Residential House including Hostels up to 100 Sqm. (Plot area)	1400
2	Residential Houses including Hostels more than 100 Sqm. but up to 200 Sqm. (Plot area)	16400
3	Residential Houses including Hostels more than 200 Sqm. but up to 400 Sqm. (Plot area)	10800
4	Residential Houses including Hostels more than 400 Sqm. (Plot area)	17850
5	Apartments, Flats having covered area up to 2000 Sqft.	
6	Apartments, Flats having covered area more than 2000 Sqft.	
(b)	COMMERCIAL	
1	Individual Shops and Private Offices up to 200 Sqft. covered area including Service Stations, Restaurants, Dhabas, Fishery Shops, Shops in Grain Market and Vegetable Market, etc.	845

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TABLE "A"		
S.No.	Property Description	No. of Establishments
2	Individual Shops and Private Offices more than 200 Sqft. covered area including Service Stations, Restaurants, Dhabas, Fishery Shops, Shops in Grain Market and Vegetable Market, etc.	800
3	Nursing Homes, Clinics/ Hospitals/ Aushadhalaya without indoor facilities, Hospitals upto 50 Beds	13
4	Hospitals more than 50 Beds but upto 100 Beds	06
5	Hospitals more than 100 Beds	01
6	Shopping Complexes including Malls, Cinema Halls and Notified Slaughter Houses	18
7	Factories, Mills	0
8	Banks, Auditoriums, Guest Houses, Hostels, Hotels (upto 10 Rooms)	50
9	Marriage Halls, Banquet Halls, Hostels, Hotels (more than 10 Rooms), Commercial Party Lawns	11
10	Clubs with restaurants facilities having membership upto 500 Nos.	0
11	Clubs with restaurants facilities having membership more than 500 Nos.	0
12	Petrol Pumps, Gas Stations	6
13	Central and State Govt. and Public Sector Offices/Complexes, Welfare Organizations/Societies	125
14	All educational Institutes of any type having Plot area upto 2 Acres	08
15	All educational Institutes of any type having Plot area more than 2 Acres but upto 5 Acres	07
16	All educational Institutes of any type having plot area more than 5 Acres	05
17	All Dharmshalas, Religious Places, Govt. Sports Clubs, Stadium etc.	145

**Municipality will take a call as per data availability.

1.2. GENERAL INFORMATION

1.2.1. The statements and explanations contained in this RFP are intended to provide a proper understanding to the Bidders about the subject matter of this RFP and should not be construed or interpreted as limiting in any way or manner the scope of services and obligations of the Contractor/Agency set forth in the Contract Agreement or right to amend, alter, change, supplement or clarify the scope of Project, the Contract to be awarded pursuant to this RFP or the terms thereof or herein contained. Consequently, any omissions, conflicts or contradictions in the Bidding Documents including this RFP are to be noted, interpreted and applied appropriately to give effect to this intent, and no claims on that account shall be entertained by the MUNICIPAL CORPORATION.

1.2.2. The MUNICIPAL CORPORATION shall receive Bid Proposal(s) pursuant to this RFP in accordance with the terms set forth in this RFP and other documents to be provided by the MUNICIPAL CORPORATION pursuant to this RFP, as modified, altered, amended and clarified from time to time by the MUNICIPAL CORPORATION (collectively the

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"Bidding Documents"), and the Bid shall be prepared and submitted in accordance with such terms on or before the date specified for submission of the Bid (the "Bid Due Date").

1.3. ANNULMENT OF CONTRACT

The contract will be annulled in following conditions:

1.3.1. In case the Contractor/Agency fails to achieve any of the Project Milestones due in accordance with respective Scheduled Milestones Date, as set in the RFP under **SECTION 7 PROJECT MILESTONES/TIMELINES.**

1.3.2. In case Contractor/Agency fails to start the operation within Ninety (90) Days of signing of the Contract Agreement.

1.3.3. The Contractor/Agency shall arrange all the movable and immovable inventory/assets required for the commencement of work in within Ninety (90) Days from the issuance of LOA and provide the details to the concerned MUNICIPAL CORPORATION. If the Contractor/Agency fails to provide the details of all the movable and immovable inventory within Ninety (90) Days, then LOA may be revoked by the concerned MUNICIPAL CORPORATION.

2. BRIEF DESCRIPTION OF BIDDING PROCESS

2.1. GENERAL

The MUNICIPAL CORPORATION has adopted a Single Stage Online Bidding Process consisting of submission of a Technical Bid and a Financial Bid (both terms are defined hereafter) (the "Bidding Process") for selection of the Bidder for award of the Project. Any person intending to participate in the Bidding Process online is required to get registered for the electronic tendering system on the portal. For more details, please see the information in registration info link on the home page.

Eligibility and Qualification of the Bidder (The "Bidder", which expression shall, unless repugnant to the context, include the members of the Consortium) will be first examined based on the details submitted ("Technical Bid") with respect to eligibility and qualifications criteria prescribed in this RFP. The Financial Bid submitted online ("Financial Bid") shall be opened to only those Bidders whose Technical Bids are responsive to eligibility and qualifications requirements as per this RFP. For avoidance of doubt, it is clarified that Financial Bid has to be submitted online only. No physical hard copy of Technical Bid(s) & Financial Bid(s) are to be submitted by the Bidder(s) except the proof of online payment and Original Bank Guarantee (if EMD is submitted in the form of Bank Guarantee), Affidavits and original Bank Guarantee.

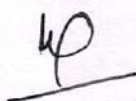
2.1.1. Bidders shall be required to examine the Project in greater detail, and carry out, at their cost, such studies with respect to the Estimated Project Cost set out in the Feasibility Report/Project Information Memorandum (PIM), annexed as **ANNEXURE-5: FORMAT FOR PROJECT INFORMATION MEMORANDUM**, to the RFP, before submitting their respective Bid for award of the Project.

2.1.2. The selection shall be based on **Least Cost Selection (LCS) method.**

2.1.3. The Bids are to be submitted online and are required to be encrypted and digitally signed, therefore, the Bidder(s) are advised to obtain DSC as per details mentioned below:

OBTAINING A DIGITAL CERTIFICATE:

2.1.3.1. The Bids submitted online should be signed electronically with a Digital Certificate to establish the identity of the Bidder bidding online.



2.1.3.2. The Bidder(s) may obtain Class II Digital Certificate

Authorities on the portal <http://cca.gov.in> or may obtain information and application format and documents required for issue of Digital Certificate from one such Certifying from MUNICIPAL CORPORATION on given below which is:

TATA Consultancy Services Ltd.

11th Floor, Air India Building, Nariman Point, Mumbai - 400021
Website: www.tcs-ca.tcs.co.in

- i. **Sify Communications Ltd.**
IIIrd Floor, Tidel Park, 4 Canal Bank Road, Taramani, Chennai - 600113
Website: www.safescrypt.com
- ii. **MTNL Trustline CA**
O/o DGM (IT-CA), 5515, 5th Floor, Core-V Mahanagar Doorsanchar Sadan, CGO Complex, MTNL, Delhi - 125003
Website: www.mtnltrustline.com
- iii. **iTrust CA (IDRBT)**
Castle Hills, Road No.1, Masab Tank, Hyderabad, Andhra Pradesh - 500057
Website: www.idrbtca.org.in
- iv. **(n)Code Solutions**
301, GNFC Tower, Bodak Dev, Ahmedabad - 380054, Gujarat
Website: www.ncodesolutions.com
- v. **National Informatics Centre Ministry of Communication and Information Technology**
A-Block CGO Complex, Lodhi Road, New Delhi - 125003
Website: <https://nicca.nic.in>
- vi. **e-Mudhra CA**
3i Info-tech Consumer Services Ltd, 3rd Floor, Sai Arcade, Outer Ring Road, Devarabeesanahalli, Bangalore - 560036, Karnataka
Website: <http://www.e-Mudhra.com>

2.1.3.3. Bids in response to the RFP may be submitted only using the digital certificate. In case, during the process of a particular tender, the user loses his digital certificate (i.e. due to virus attack, hardware problem, operating system problem), he may not be able to submit the bid online. Hence, the users are advised to have back up of certificate and keep the copies at safe place under proper security to be used in case of emergencies.

2.1.3.4. If the Digital Certificate issued to the authorized user of the Bidder is used for signing and submitting a Bid, it will be considered equivalent to a No Objection Certificate/Power of Attorney to that user. The Bidder has to authorize a specific individual via an authorization certificate signed by all partners to use the Digital Certificate as per Indian Information Technology Act 2000. Unless that certificates are revoked, it will be assumed to give adequate MUNICIPAL CORPORATION to the user to submit a Bid on behalf of the entity for the Project, as per Information Technology Act 2000. The Digital Signature of the authorized user will be binding on the entity submitting the Bid. It shall be the responsibility of the Management/Director/Partners of the registered entities/Bidders to inform the Certifying MUNICIPAL CORPORATION or sub-certifying MUNICIPAL CORPORATION, in case of change of authorized user and applies for a fresh Digital Certificate and issues an "Authorization Certificate."

for the new user. The procedure for application of a Digital Certificate will remain the same for the new user.

2.1.4. The Bidder(s) may be called for a Technical Presentation to share their Approach and Methodology for undertaking the Project, including their views on the Project Milestones and Timelines.

2.1.5. The MUNICIPAL CORPORATION reserves the right to visit at its own cost, one or more Project Area(s) listed by the Bidder(s) in its list of experience, to independently verify and satisfy itself about the quality of work performed and also verify the certificates filed by the Bidder(s), as part of Bidding Documents. Bidder(s) shall be responsible to organize meetings with their respective clients and also take around MUNICIPAL CORPORATION team in the Project Area(s).

2.1.6. Any queries or request for additional information concerning this RFP shall be submitted through email on Email ID mentioned in this RFP document (madhubaninagarnigam@gmail.com).

Bidder(s) are advised to be specific and pose clause wise queries in an unambiguous manner. The MUNICIPAL CORPORATION reserves the right not to respond to vague and frivolous queries.

The subject of the email shall mention the following:

“QUERIES/REQUEST FOR ADDITIONAL INFORMATION: RFP for Selection of Contractor for **DOOR TO DOOR COLLECTION, SEGREGATION OF MUNICIPAL SOLID WASTE (MSW) FROM EACH RESIDENTIAL AND COMMERCIAL ESTABLISHMENT & TRANSPORTATION TO THE TRANSFER STATIONS/PROCESSING SITE IN MUNICIPAL CORPORATION, MADHUBANI FOR FOUR YEARS** for a MC MADHUBANI of the State of BIHAR.”

The Pre-Bid queries should be submitted in the format specified below to be considered for response. Pre-Bid queries not submitted in the prescribed format shall not be responded to. All the queries shall be strictly typed/neatly written as per the following format:

S.No.	Particulars	Details
1	Organization	
2	Document Name	
3	Page Number	
4	Clause Number	
5	Query	
6	Suggestion, if any	
7	Name & Designation of point of Contact	
8	Contact No. & Email ID	

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2.2. SCHEDULE OF BIDDING PROCESS

The MUNICIPAL CORPORATION would endeavour to adhere to the following schedule; However, the MUNICIPAL CORPORATION may, at its own discretion, revise or extend any of the Timelines set forth in this schedule:

S.No.	MC Stage	Contractor Stage	Start Date & Time	Expiry Date & Time	Stage(s)
1	Release of Tender	13.05.2026			
2		Tender Download	29.05.2026 11:00AM	18.06.2026 03:00 PM	
3	Pre-Bid Meeting		03.06.2026 12:30 PM	03.06.2026 02:00 PM	
4		Submit Bid(s) Online	29.05.2026 11:00AM	18.06.2026 03:00 PM	<ul style="list-style-type: none">• Bid Security/EMD;• Technical Bid;• Financial Bid.
5	Submission of Physical Hard of Proof of Bid Security/EMD, Power of Attorney and Affidavits in original			22.06.2026 05:00 PM	
5	Open EMD & Technical Bid/PQ Bid			24.06.2026 03:00 PM	<ul style="list-style-type: none">• Bid Security/EMD, POA Envelope, Technical Bid Envelope.

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2.2.1. The Pre-Bid Meeting will be held on (03-06-2026) in the office of (MUNICIPAL COMMISSIONER, MADHUBANI) at (12:30 PM).

2.2.2. Address for Correspondence and any queries relating to the Bidding Document should be given in favour of the Commissioner of the Municipal Corporation.

- Kind Attention MADHUBANI Municipal Corporation
- Address – RED CROSS ROAD NAGAR NIGAM MADHUBANI
- Email ID – MADHUBANINAGARNIGAM@GMAIL.COM
- Phone No – 06276222033

2.2.3. Bidder(s) participating in e-tendering shall check his/her validity of Digital Signature Certificate before bidding in the specific work floated online at e-tendering portal of Municipal Corporation, Madhubani of the State of BIHAR, on the website eproc2. Also, Bidder(s) will be held liable solely, in case, while bidding in particular stage – Date & Time expired as per the key dates available on the RFP Document. Key Dates are subject to change in case of any amendment in Schedule due to any reason stated by concerned Municipal Commissioner of the MUNICIPAL CORPORATION.

2.3 INSTRUCTIONS TO BIDDER(S)

2.3.1 Number of Bids and Costs thereof:

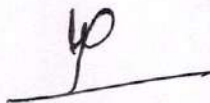
No Bidder(s) shall submit more than one Bid for the Project. The Bidders shall be responsible for all of the costs associated with the preparation of their Bids and their participation in the Bidding Process. The MUNICIPAL CORPORATION shall not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding Process. Sub-Letting of the work in no case shall be allowed. **Also, Joint Venture, Consortium is not allowed in this RFP.**

2.3.2 Opening of an Electronic Payment Account:

For purchasing the RFP Documents online, Bidder(s) are required to pay the Documents Fees online using the electronic payments gateway service. For the list of payment options through which the online payments can be made, please refer to the home page of the portal Eproc2

2.3.3 Cost of RFP Document Fee:

The cost of the RFP Document is INR 10,000/- (INR Ten Thousand only). This fee is non-refundable. For details, please refer to NOTICE INVITING REQUEST FOR PROPOSAL (RFP) A/c No.:-50509609966 (to be paid – online), IFSC:-IDIB000M523 (to be paid – online)



2.3.4 Submission of RFP Document Fee:

As applicable RFP Document Fee (i.e. non-refundable) has to be paid through RTGS/NEFT during the "Downloading of RFP Document & Payment of RFP Document Fees" in favour of "Municipal Commissioner (Name of MUNICIPAL CORPORATION, MADHUBANI, BIHAR); A/c No.: 50509609966 (to be paid – online), IFSC:- IDIB000M523 (to be paid – online)."

2.3.5 Submission of Bid Security/EMD:

As applicable Bid Security/EMD has to be in form of FDR/Bank Guarantee/any other available online mode, in the favour of "Municipal Commissioner (Name of MUNICIPAL CORPORATION, MADHUBANI, BIHAR); A/c No.: 50509609966 (to be paid – online), IFSC:- IDIB000M523 (to be paid – online)."

2.3.6 Right to accept and to reject any or all Bids:

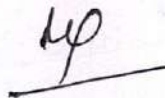
2.3.6.1 Notwithstanding anything contained in this RFP, the MUNICIPAL CORPORATION reserves the right to accept or reject any Bid and to annul the Bidding Process and reject all Bids at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof.

2.3.6.2 The MUNICIPAL CORPORATION reserves the right to verify all statements, information and documents submitted by the Bidder(s) in response to the RFP or the Bidding Documents. Failure of the MUNICIPAL CORPORATION to undertake such verification shall not relieve the Bidder(s) of its obligations or liabilities hereunder nor will it affect any rights of the MUNICIPAL CORPORATION thereunder.

2.3.6.3 The MUNICIPAL CORPORATION reserves the right to reject any Proposal and appropriate the Bid Security/EMD if in case it is found during the evaluation or at any time before signing of the Contract Agreement or after its execution or during the period of subsistence of the Contract Agreement that:

- i. The Bidder has made a material misrepresentation or has furnished any materially incorrect or false information, or
- ii. The Bidder does not provide, within the time specified by the MUNICIPAL CORPORATION, the supplemental information sought by the MUNICIPAL CORPORATION for evaluation of the Proposal.

2.3.6.4 Any misrepresentation furnishing any improper response shall lead to disqualification of the Bidder. The Bidder shall be disqualified forthwith if not yet appointed as the Contractor/Agency either by issue of the Letter of Award ("LOA") or entering into of the Contract Agreement, and if the Bidder has already been issued the LOA or has entered into the Contract Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in the RFP, be liable to be terminated, by a communication in writing by the MUNICIPAL CORPORATION to the Bidder, without the MUNICIPAL CORPORATION being liable in any manner whatsoever to the Bidder or Contractor/Agency, as the case may be. In such an event, the MUNICIPAL CORPORATION shall forfeit the Bid Security or EMD and the Bidder/Selected Bidder or Contractor/Agency shall be Debarred for next Two (2) Years in MUNICIPAL CORPORATION.



2.3.6.5 Any entity which has been barred by the Central/State Government, or any entity controlled by the Central/State Government, from participating in any project, and the bar subsists as on the Date of Bid the said entity would not be eligible to submit a Bid for the Project.

2.3.7 Other Instructions:

2.3.7.1 The Bidder(s) shall submit details of their Financial Bid in the online Templates of the online Bid. The Financial Bid has to mandatorily be submitted online.

2.3.7.2 The Financial Bid has to be submitted mandatorily online and shall not be accepted physically under any circumstances. In case any Bidder does not comply with procedure given above, the Bidder shall be disqualified from the Bid. Such defaulting Bidder may be de-listed without any notice for failing to abide by the strictly approved terms of notice inviting Proposals in response to the RFP.

2.3.7.3 The Bids which are not accompanied by the Bid Security/EMD or proof of Bid Security/EMD or proof w.r.t. exemption of Bid Security/EMD, do not strictly follow the requirements set out in the Bidding Documents, are liable to be rejected summarily.

2.3.7.4 The Bids of the Bidder(s) which do not satisfy the Eligibility Criteria in the RFP Document are liable to be rejected summarily without assigning any reason and no claim whatsoever on any account will be considered in such cases of rejection.

2.4 AMENDMENT OF RFP

2.4.1 At any time prior to the deadline for submission of Bids, the MUNICIPAL CORPORATION may, for any reason, whether at its own initiative or in response to clarifications requested by Bidders, modify the terms of this RFP by the issuance of any Addendum/Corrigendum.

2.4.2 In order to provide the Bidder(s) a reasonable time for taking an Addendum or Corrigendum into account, or for any other reason, the MUNICIPAL CORPORATION may, in its sole discretion, extend the Bid Due Date.

2.5 PREPARATION AND SUBMISSION OF BIDS

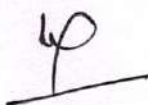
2.5.1 LANGUAGE AND CURRENCY

2.5.1.1 The Bid and all related correspondence and documents shall be written in English/Hindi language. Supporting documents and printed literature furnished by the Bidder(s) with the Bid may be in any other language provided that they are accompanied by an appropriate translation into English/Hindi. Supporting materials that are not translated into English/Hindi shall not be considered. For the purpose of interpretation and evaluation of the Bid the English/Hindi language translation shall prevail.

2.5.1.2 The currency for the purpose of the Bid shall be Indian National Rupee (INR).

2.5.2 VALIDITY OF BID

2.5.2.1 The Bid shall indicate that it would remain valid for a period of **One Hundred Eighty Days (180)** from the Bid Due Date (Bid Validity Period). The MUNICIPAL CORPORATION reserves the right to reject any Bid that does not meet this requirement.



2.5.2.2 Prior to expiry of the original Bid Validity Period, the MUNICIPAL CORPORATION may request the Bidder(s) to extend the period of validity for

a specified additional period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder agreeing to the request will not be allowed to modify its Bid, but would be required to extend the validity of its Bid Security/EMD for the period of extension.

2.6. BID SECURITY/EMD

2.6.1. The Bidder(s) will be required to furnish Bank Guarantee (BG) /DD/ Fixed Deposit Receipt (FDR) OR Deposit Online, along with the Proposal, a Bid Security/EMD as specified under NOTICE INVITING REQUEST FOR PROPOSAL (RFP). Accordingly, As applicable Bid Security/EMD has to be in form of Bank Guarantee / FDR any other available online mode, in the favour of **Municipal Commissioner (Name of MUNICIPAL CORPORATION, MADHUBANI BIHAR); A/c No.:-50509609966, IFSC:- IDIB000M523** The Bid shall be summarily rejected if it is not accompanied by the specified Bid Security/EMD. BG Format is annexed as **APPENDIX - 6: FORMAT FOR BANK GUARANTEE.**

2.6.2. The Bid Security/EMD shall be returned to unsuccessful Bidder(s) within a period of Thirty (30) Days from the Date of Announcement of the Successful Bidder. The Bid Security/EMD submitted by the Successful Bidder shall be released upon furnishing of the Performance Security in the form and manner stipulated in the Contract Agreement.

2.6.3. The Bid Security/EMD shall be forfeited in the following cases;

2.6.3.1. If the Bidder fails to meet the requirements set out in any provision of the RFP.

2.6.3.2. If the Bidder withdraws its Bid during the interval between the Bid Due Date and expiration of the Bid Validity Period, and

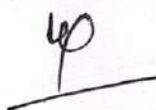
2.6.3.3. If successful Bidder fails to provide the Performance Security within the stipulated time or any extension thereof provided by the MUNICIPAL CORPORATION.

2.6.3.4. For grounds provided in the Bid Security/EMD, Bidder(s) may note that the MUNICIPAL CORPORATION will not entertain any deviations to the RFP Document at the time of submission of the Bid or thereafter. The Bid to be submitted by the Bidder(s) will be unconditional and unqualified and the Bidder(s) would be deemed to have accepted the terms and conditions of the RFP Document with all its contents including the Contract Agreement. Any conditional Bid shall be regarded as non-responsive and would be liable for rejection.

2.7. CORRESPONDENCE

2.7.1. All necessary correspondence/enquiries in hard copies should be submitted to the following in writing by courier/email/fax/post:

Attention of	UMESH KUMAR BHARTI
Designation	MUNICIPAL COMMISSIONER
Address	MUNICIPAL CORPORATION MADHUBANI RED CROSS ROAD MADHUBANI
Fax No.	



2.7.2. No interpretation, revision, or other communication from the MUNICIPAL CORPORATION regarding this solicitation shall be valid unless it is in writing and is signed by the Authorized Signatory of the MUNICIPAL CORPORATION. The MUNICIPAL CORPORATION may choose to send to all Bidder(s) or will upload on the website Eproc2 written copies of MUNICIPAL CORPORATION's responses, including a description of the enquiry.

2.8. FORMAT AND SIGNING OF BID

2.8.1. The Bidder shall provide all the information sought under this RFP and upload the same online as a part of its online submission of Bid as well as by way of physical submission of the original copy of the Enclosures of Bid, as specified in this RFP. The MUNICIPAL CORPORATION will evaluate only those Bids that are received in the required Formats and complete in all respects. Any and all conditional Bids shall be liable to be summarily rejected.

2.8.2. The Bidder(s) shall submit their Bid(s) online consists of:

2.8.2.1. Bid Security/EMD Deposit

The online Bid Security shall contain reference details of the Bid Security/EMD Deposit instrument and scanned copy of documents.

2.8.2.2. Technical Bid

The online Technical Bid shall contain the information and scanned copies of the Documents/Certificates as required to be submitted supporting Eligibility Criteria and Technical Bid as specified in Clause 2.8.4. Hard Copy/Physical submission of the Technical Bid shall lead to the Bid(s) being summarily rejected.

2.8.2.3. Financial Bid

To be only submitted mandatory online "Information related to Price Bid of the Tender". Price Bid should not be submitted in the form of hard copy. Hard Copy/Physical submission of the Financial Bid shall lead to the Bid(s) being summarily rejected.

2.8.3. The Bidder(s) can submit their RFP Documents as per the dates mentioned in the Schedule above, subject to the following conditions:

2.8.3.1. The RFP without Bid Security/EMD will not be opened.

2.8.3.2. The RFP of the Bidder(s) who does not satisfy the Eligibility and Technical Bid Criteria in the Bid Documents is liable to be rejected summarily without assigning any reason and no claim whatsoever on this account will be considered.

2.8.3.3. The Bid(s) submitted by the Bidder(s) shall remain open for acceptance during the Bid Validity Period to be reckoned from the Date of "Online Bid preparation and submission". If any Bidder(s) withdraws his Bid(s) before the said period, any modifications in the terms and conditions of the Bid(s), the Bid Security/EMD shall stand forfeited. Bid(s) would require to be valid for One Hundred Eighty Days (180) from the Bid Due Date of "Online Bid preparation and submission stage".

2.8.3.4. The Bid Security/EMD shall be returned to unsuccessful Bidder(s) within a period of Thirty (30) Days from the Date of Announcement of the Successful Bidder without any interest.

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2.8.4. Technical Bid shall include scan copies of:

- i. Acknowledgement of RFP Document and Notification of Intent to submit Bid Appendix as per **APPENDIX-I: FORMAT FOR ACKNOWLEDGEMENT OF RFP DOCUMENT**
- ii. Covering Letter cum Project Undertaking as per **APPENDIX-II: FORMAT FOR COVERING LETTER-CUM-PROJECT UNDERTAKING**
- iii. Power of Attorney for signing the Bid as per the format at **APPENDIX-III: FORMAT FOR POWER OF ATTORNEY (POA) FOR SIGNING APPLICATION**
- iv. Details of Technical Staff along with their Bio-Data as per the format at **APPENDIX-IV
FORMAT FOR DETAILS OF TECHNICAL STAFF**
- v. Self-Certification regarding non-blacklisting as per the format **APPENDIX-V: FORMAT FOR UNDERTAKING FOR NON-BLACKLISTING OF BIDDER**
- vi. Details of Bidders as per **ANNEXURE-1: FORMAT FOR DETAILS OF BIDDER**
- vii. Details of Eligible Project(s) as per **ANNEXURE-2: FORMAT FOR DETAILS OF ELIGIBLE PROJECTS**
- viii. Statement of Legal Capacity as per **ANNEXURE-3: FORMAT FOR STATEMENT OF LEGAL CAPACITY**

2.8.5. Financial Bid as per the format set out in **ANNEXURE-4: FORMAT FOR FINANCIAL BID.**

Financial Bid shall be made indicating expected number of establishments for executing Scope of Project as defined in the Terms of Reference (TOR). For the avoidance of any doubt, the Financial Bid shall only be submitted online as per the provision of this RFP and there shall be no physical submission of such Financial Bid. Physical submission of the Financial Bid shall lead to the Bid(s) being summarily rejected.

2.8.6. After the online submission, the physical hard copy submission of only following original documents should be submitted by the Bidder(s) at the scheduled Date & Time of Opening of Bid(s), refer **2.2 SCHEDULE OF BIDDING PROCESS** for details:

- i. Online Transaction Receipt of Tender Fees
- ii. Bank Guarantee / FDR / Online Transaction Receipt for Bid Security/EMD
- iii. Power of Attorney for Authorized Signatory

2.9. BID DUE DATE

2.9.1. Bid(s) should be submitted before [●] 22.06.2026 17:00 Hours IST on the Bid Due Date mentioned in the Schedule of Bidding Process, to the address provided in **2.7 CORRESPONDENCE** in the manner and form as detailed in this RFP Document. Applications submitted by either facsimile transmission or telex will not be acceptable.

2.9.2. The MUNICIPAL CORPORATION, at its sole discretion, may extend the Bid Due Date by issuing an Addendum/Corrigendum.

2.10. LATE BIDS

2.10.1. Any Bid received by the MUNICIPAL CORPORATION after [●] 18.06.2026 15:00 Hours IST on the Bid Due Date will not be entertained at all.

2.11. MODIFICATION AND WITHDRAWAL OF BIDS

2.11.1. The Bidder(s) are not allowed to modify or withdraw the Bid(s); once they are submitted.

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2.12. CONFIDENTIALITY

- 2.12.1. Information relating to the examination, clarification, evaluation and recommendation for the short-listed Bidder(s) shall not be disclosed to any person not officially concerned with the process. The MUNICIPAL CORPORATION will treat all information submitted as part of Bid in confidence and will ensure that all who have access to such material must treat it in confidence. The MUNICIPAL CORPORATION will not divulge any such information unless it is ordered to do so by any Government MUNICIPAL CORPORATION that has the power under law to require its disclosure.

2.13. CLARIFICATIONS

- 2.13.1. To assist in the process of evaluation of Bids, the MUNICIPAL CORPORATION may, at its sole discretion, ask any Bidder for clarification on its Bid. The request for clarification and the response shall be in writing. No change in the substance of the Bid would be permitted by way of such clarifications. However, such clarification(s) may without prejudice include clarifications with respect to minor deviations found in the Bid and shall be provided within the time specified by the MUNICIPAL CORPORATION for this purpose. If a Bidder does not provide clarifications sought under this Clause above within the prescribed time, its Bid shall be liable to be rejected.

In case the Bid is not rejected, the MUNICIPAL CORPORATION may proceed to evaluate the Bid by construing the particulars requiring clarification to the best of its understanding, and the Bidder shall be barred from subsequently questioning such interpretation of the MUNICIPAL CORPORATION.

2.14. PROPRIETARY DATA

- 2.14.1. All documents and other information supplied by the MUNICIPAL CORPORATION or submitted by the Bidder(s) to the MUNICIPAL CORPORATION shall remain or become the property of the MUNICIPAL CORPORATION. Bidder(s) are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their Bid. The MUNICIPAL CORPORATION will not return any Bid or any information provided along therewith.

2.15. CORRESPONDENCE WITH THE BIDDER

- 2.15.1. Save and except as provided in this RFP, the MUNICIPAL CORPORATION shall not entertain any correspondence with any Bidder in relation to the acceptance or rejection of any Bid.

2.16. ELIGIBILITY OF BIDDER

- 2.16.1. Basic Pre-Qualification (PQ) Criteria:

- 2.16.1.1. The Bidder(s) for Pre-Qualification should be a single entity, not a group of entities (**the "Joint Venture/Consortium"**); **Joint Ventures/Consortium are not allowed as per this RFP, to implement the Project.** However, no Bidder(s) applying, as the case may be, can be member of another Bidder(s). The term Bidder used herein would apply to a Single entity. A Bidder may be a natural person or a body corporate including but not limited to a company incorporated.

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under the Companies Act, 1956/2013 or under the applicable laws of the jurisdiction of its origin or a Society registered under the Societies Registration Act, 1860 or any other applicable governing law or a trust registered under the Indian Trusts Act, 1882 or Limited Liability Partnership (LLP) or a Sole Proprietorship registered under the relevant applicable governing law or any combination of them.
A Joint Venture/Consortium shall not be eligible for consideration in this RFP.

2.16.1.2. A Bidder(s) shall not have a conflict of interest (the "Conflict of Interest") that affects the Bidding Process. Any Bidder(s) found to have a Conflict of Interest shall be disqualified. In the event of disqualification, Municipal Corporation Madhubani shall be entitled to forfeit and appropriate the Bid Security/EMD and/or Performance Security, as the case may be, without prejudice to any other right or remedy that may be available to Municipal Corporation, Madhubani of the State of Bihar under the Bidding Documents or otherwise. Determining the Conflict of Interest shall be the prerogative of the Municipal Corporation Madhubani of the State of Bihar.

2.16.1.3. Without limiting the generality of the above, a Bidder(s) shall be deemed to have a Conflict of Interest affecting the Bidding Process, if:

- i. The Bidder, its Member or Associate (or any constituent thereof) and any other Bidder, its Member or any Associate thereof (or any constituent thereof) have common controlling shareholders or other ownership interest; provided that this qualification shall not apply in cases where the direct or indirect shareholding of a Bidder, its Member or an Associate (or any constituent thereof) is less than 25% of the paid up and subscribed capital of the other Bidder, its Member or Associate (or any constituent thereof); or
- ii. A constituent of such Bidder is also a constituent of another Bidder; or
- iii. Such Bidder, its Member or Associate receives or has received any direct or indirect subsidy, grant, loan or subordinated debt from any other Bidder, its Member or Associate, or has provided any such subsidy, grant, loan or subordinated debt to any other Bidder, its Member or Associate thereof; or
- iv. Such Bidder, its Member or Associate (or any constituent thereof) and any other Bidder, its Member or any Associate thereof (or any constituent thereof) have common controlling shareholders or other ownership interest; or
- v. Such Bidder has a relationship with another Bidder, directly or through common third parties, that puts either or both of them in a position to have access to each other's information about, or to influence the Bid of either or each other, or Such Bidder has participated as a consultant to Municipal Corporation, Madhubani of the State of Bihar in the preparation of any documents, design or technical specifications of the Project. A Bidder shall be liable for disqualification if any legal, financial or technical adviser of the MUNICIPAL CORPORATION in relation to the Project is engaged by the Bidder, its Member or any Associate thereof, as the case may be, in any manner for matters related or incidental to the Project.
- vi. Any entity which has been barred/blacklisted by the Central/State Government, or an entity controlled by it, from participating in any project, and the bar subsists As on the Date of Bid would not be eligible to submit a Bid.

2.17. OTHER DOCUMENTS

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2.17.1. The Bidder(s) shall enclose with its application, to be submitted as per the format mentioned in Clause 2.8, complete with its Appendices and Annexures, the following:

2.17.1.1. In case Bidder(s) is attaching experience certificate in the Bid, then; Experience Certificate(s) and Agreement(s) or duly executed work order(s) or Letter of Award (LOA) from its concerned Client(s) in support of above work undertaken.

2.17.2. The Bidder(s) should submit a Power of Attorney (POA) as per the format at **APPENDIX-III: FORMAT FOR POWER OF ATTORNEY (POA) FOR SIGNING APPLICATION**, authorizing the Signatory of the Bid to commit the Bidder duly supported by a charter document or board resolution in favour of executants.

3. CRITERIA FOR EVALUATION

3.1. TESTS OF RESPONSIVENESS

3.1.1. Prior to evaluation of the Bid(s), the MUNICIPAL CORPORATION will determine whether each Bid(s) is responsive to the requirements of the RFP Document. A Bid shall be considered responsive if:

- i. It is received as per format prescribed under the RFP.
- ii. It is received by the Bid Due Date including any extension(s) granted by the MUNICIPAL CORPORATION.
- iii. It is signed, sealed, bound together in hard cover, and marked as stipulated in the RFP document, along with (if any) Document etc. is/are required for further clarification by MUNICIPAL CORPORATION.
- iv. It is accompanied by the Power of Attorney as specified in RFP.
- v. It contains all the information and documents (complete in all respects) as requested in this RFP.
- vi. It contains information in Formats specified in this RFP.
- vii. It does not contain any condition or qualification; and
- viii. It is not non-responsive in terms hereof.

3.1.2. The MUNICIPAL CORPORATION reserves the right to reject any Bid which in its opinion is non-responsive and no request for modification or withdrawal shall be entertained by the MUNICIPAL CORPORATION in respect of such Bid.

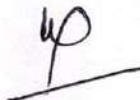
3.1.3. Conditional Bid(s) shall not be considered. Any Bid(s) found to contain conditions attached, will be rejected.

3.2. BID EVALUATION – TECHNICAL BID – PART I

3.2.1. TECHNICAL CAPACITY

To be considered Technically Qualified ("**Technically Qualified**"), the Bidder(s) shall have to fulfil following criteria:

- i. Bidder(s) shall submit the proposed "**Action Plan including Approach, Project Milestones, Timelines etc. particular to the Project**" with the Bid(s).
- ii. The Bidder's competence and capability for projects undertaken in last 10 (ten) years prior to the Bid Due Date:



Sr. No.	Parameter	Criteria
1.	The Bidder shall have experience of minimum Three years of successful operations in collection and transportation (C&T Operations) of MSW in India.	<ul style="list-style-type: none"> • One (1) Project of 80% of project capacity of the C&T Operations; or • Two (2) Projects of 50% of the project capacity of the C&T Operations; or • Three (3) projects of 40% of the project capacity of the C&T Operations.
2.	The Bidder shall have demonstrated Manpower work experience in Road Sweeping & Drain Cleaning / Horticulture Department Works / Facility Management/ Mechanized cleaning with respect to Waste Management in India, with a minimum of Three years of successful operation.	<ul style="list-style-type: none"> • One (1) MSW Processing Facility of 80% of Project Capacity; or • Two (2) MSW Processing Facility of 50% of Project Capacity; or • Three (3) MSW Processing Facility of 40% of Project Capacity.

iii. The Bidder(s) shall provide Documentary evidence w.r.t. Similar Nature of Works by way of satisfactory experience certificate of services/operation along with work order and Agreement Copy and/or Letter of Award (LOA) in support of above work Such documentary evidence shall be duly signed by the authorized signatory of the Bidder(s).

(Experience Certificate issued by Municipal Corporation/Govt PSUs/ should not be of rank below of Chief Engineer of Municipal Corporation and should be notarized)

3.2.2. FINANCIAL CAPACITY

To demonstrating Financial Capacity, the Bidder(s) shall have to fulfil following conditions ("**Financial Capacity**"):

- **Turnover – Average Annual Financial Turnover should be two times of the project cost for one year during the immediate last Three (3) consecutive Financial Years.**
- **Net worth – Should be positive.**
- **Bank Solvency Certificate should be equal to the estimated cost of one year.**

IMPORTANT NOTE:

a) To demonstrating Financial Capacity, the Bidder(s) shall have to fulfil following conditions

i. For the purposes of this RFP, **Net worth** shall mean:

The aggregate value of the paid-up share capital and all reserves created out of the profits and securities premium account, after deducting the aggregate value of the accumulated losses, deferred expenditure and miscellaneous expenditure not written off, as per the audited balance sheet, but does not include reserves created out of revaluation of assets, write-back of depreciation and amalgamation; and

ii. For the purposes of this RFP, **Turnover** shall mean:

The aggregate value of the realization of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company during a financial

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year. For avoidance of doubt, it is clarified that it shall not include interest earned from financial instruments.

- iii. In case the Annual accounts for the last Financial Year are not audited and therefore the Bidder(s) cannot make it available, the Bidder(s) shall give an undertaking to this effect, certified by the Statutory Auditor/Chartered Accountant. In such a case, the Bidder(s) shall provide the Audited Annual Reports for the Financial Year preceding the latest Financial Year for which the Audited Annual Report is not being provided.
- iv. The Bid must be accompanied by the Audited Annual Reports of the Bidder(s) for the last Three (3) consecutive Financial Years at the close of the preceding Financial Year prior to the Bid Due Date. The Bidder(s) shall enclose, the Certificate(s) from its Statutory Auditors specifying the Net worth and Turnover of the Bidder(s) at the close of the Financial Year preceding the Bid Due Date and also specifying that the Methodology adopted for calculating such Net worth.

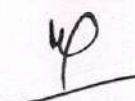
3.2.3. Any entity which has been blacklisted by the Central/State Government, or any entity controlled by it, in any project (Build, Own and Transfer or otherwise), and the bar subsists As On The Date of the Bid, would not be eligible to submit the Bid, either individually or through any firm/company, etc.

3.2.4. In the event that the Bidder(s) submits a Bid for the Project, and the Bidder(s) does not meet the Technical Capacity and/or Financial Capacity as described as described under Clause 3.2, the Bidder(s) shall be Dis-Qualified and the Financial Bid(s) of such Bidder(s) shall not be opened.

TECHNICAL EVALUATION CRITERIA:

The detailed technical evaluation of Proposals satisfying minimum eligibility conditions as above shall be done. The Criteria, sub-criteria and point system for detailed evaluation shall be as follows:

S.No.	Criteria	Maximum Marks	
1	Average Annual Turnover in the last three financial years i.e. 2024-25, 2023-24 & 2022-23	20	
	A	More than 150 Crore	20
	B	More than 120 Crore Less than 150 crore	15
	C	More than 90 Crore Less than 120 crore	10
2	Experience of Projects in similar Door to Door Collection and Transportation of MSW of Minimum 3 Year Completed Work with Central Govt./State Govt./MUNICIPAL CORPORATION in India with copies of Work Order and satisfactory completion/performance certificate issued by not be of rank below of Municipal Commisnior or Executive officer.	30	
	A	Value more than 100 Crore	30
	B	Value more than 90 Crore less than 100 Crore	20
	C	Value more than 80 Crore less than 90 Crore	10
3	Experience of Projects in similar Manpower work experience in Road	30	



	Sweeping & Drain Cleaning/Horticulture Department Works/Facility Management/Mechanized Cleaning Work Minimum 3 Year of Completed With Any central Govt./State Govt./MUNICIPAL COPROPRATION in India with copies of Work Order and satisfactory completion/performance certificate/Experience Certificate issue by Municipal Corporation/Govt. PSU and should not be of rank below of Municipal Commissioner of Municipal Corporation and should be enclosed.	
A	Man power Payrolls more than 900 (100%)	30
B	Man power Payrolls more than 720 less than 891 (99% to 80%)	20
C	Man power Payrolls more than 540 less than 711 (79% to 60%)	10
4	Presentation before the technical committee constituted by Municipal Corporation/ Council (Will be offline to be community separtartely).	20
A	Project under standing - 5 Marks	10
B	Details and innovative Municipal Corporation Specifices approch and methodology via flow chat and preliminary city survey etc for project opertation - 5 Marks	
C	Procurement and Man Power Deployment plan Schedule and assessment of vehicles, Equipement and Transfer station requeriment - 5 Marks	10
D	Action Plan for IEC activities, Control Command Center for Monitoring & Evaluation and Grievance Redressal and Innovative approach such as integration with ICCC for smart cities (GPS tracking) - 5 Marks	

	The price bids of only those bidders who qualify technically (above 70 marks) will be considered for financial evaluation.	Total 100 Marks
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3.3 BID EVALUATION – FINANCIAL BID – PART II

3.3.1. The shortlisted Bidder(s) adjusted as responsive and Technically Qualified at the end of the Bid Evaluation- Technical Bid – Part I shall be notified and informed of the Date and Time of opening of Financial Bid(s).

3.3.2. Financial Bid(s) of all the shortlisted Bidder(s) who meet the Technical Capacity and Financial Capacity Evaluation Criteria, shall be evaluated on the basis of the Financial Bid(s) (the "Financial Bid Parameter") as specified in this RFP.

3.3.3. FINANCIAL BID PARAMETER

The Bidder(s) shall quote in the Financial Bid(s), Indian National Rupees (exclusive of GST) per household/property/establishment of different categories i.e. fee for per establishment for Collection of MSW and Transportation to the Processing Site.

It is hereby clarified, clearly recorded and understood by the Bidder that the Payment shall be made as per the mechanism set out below and as particularly specified in the Contract Agreement:

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■ **The Payment will be made from the start day of COD (Commercial Operations Date).**

(GST, if applicable shall be paid by the MUNICIPAL CORPORATION as per Applicable Laws in addition to agreed Fee.

3.3.4 Financial Bid(s) of shortlisted Bidder(s) who qualify after Bid Evaluation – Technical Bid-Part I, shall be opened in the presence of the representatives of shortlisted Bidders(s), who choose to attend. The Financial Bid(s) of the shortlisted Bidder(s) shall be read out and recorded.

3.3.5. The Bidder who quotes the Lowest Fee (L1) in accordance with the above procedure would be declared as the selected bidder.

3.3.6. In the event that Two (2) or more Bidders quote exactly the same validated Financial Bid Parameter for the Project Then the MUNICIAPL CORPORATION reserves the right either to:

- i. Invite Fresh Financial Bids from only such Bidders in sealed Envelops(s) before Tender Inviting MUNICIPAL CORPORATION or any constituted committee; or
- ii Identify the Selected Bidder by draw pf lots which shall be conducted, with prior notice in the presence of the Tied Bidders, who choose to attend; or
- iii Take any such measure as may be deemed fit in its sole discretion, including annulment of the bidding process.

3.4 NOTIFICATION OF AWARD & ISSUE OF LETTER OF AWARD

3.4.1. The Selected Bidder shall be issued a Letter of Award (LOA) within 7 days of the opening of the Financial Bids(s).

3.4.2. The MC shall first examine the proposed “ Action Plan including Approach, Project Milestones, timelines etc. particular to the Project” summitted by bidders(s) at the time of bid in view of their requirement. IF the proposed “Action Plan including Approach, Project Milestones, Timelines etc. particular to the Project” submitted by the Bidders(s) is not viable, MC shall ask the Agency/ Finalized Contractor to revise its action plan as per milestone and timelines of the project.

3.5 FRAUD AND CORRUPT PRACTICES

3.5.1 The Bidder(s) participating in the Bidding Process and responding to the RFP and their respective officers, employees, agent and advisers shall observe the highest standard of ethics during the Bidding Process, Notwithstanding anything to the contrary contained herein, he MUNICIPAL CORPORATION may reject any Bid(s) without being liable in any manner whatsoever to the Bidder if it determines that the Bidder(s) has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process may attract criminal proceedings again the Contractor/Agency.

Without prejudice to the rights of the MUNICIPAL CORPORATION under the RFP herein above, if Bidder(s) is found by the MUNICIPAL CORPORATION to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bidding Process, such Applicant shall not be eligible to participate in any tender or RFP issued by the MUNICIPAL CORPORATION for a period of minimum Two (2) Years or as specified by MUNICIPAL CORPORATION from the Date such Bidder is found by the MUNICIPAL CORPORATION to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be. For the purposes of this RFP, the following terms shall have the meaning here in after respectively assigned to them:

- 3.5.1.1. "Corrupt Practice" means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to, or employing, or engaging in any manner whatsoever, directly or indirectly, any official of the MUNICIPAL CORPORATION who is or has been associated in any manner, directly or indirectly, with the Bidding Process or the LOA or has dealt with matters concerning the Contract Agreement or arising therefrom, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the MUNICIPAL CORPORATION, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOA or after the execution of the Contract Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Contract Agreement, who at any time has been or is a legal, financial or technical adviser of the MUNICIPAL CORPORATION in relation to any matter concerning the Project;
- 3.5.1.2. "Fraudulent Practice" means misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;
- 3.5.1.3. "Coercive Practice" means impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bidding Process;
- 3.5.1.4. "Undesirable Practice" means (i) establishing contact with any person connected with or employed or engaged by the MUNICIPAL CORPORATION with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest; and
- 3.5.1.5. "Restrictive Practice" means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

3.6. PRE-BID MEETING/CONFERENCE

3.6.1.A Pre-Bid meeting/conference of the interested Bidder(s) shall be convened at the designated Date, Time and Place. During the course of Pre-Bid meeting/conference, the Bidder(s) will be free to seek clarifications and make suggestions for consideration of the MUNICIPAL CORPORATION. The MUNICIPAL CORPORATION shall endeavour to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Bidding Process.

3.7. MISCELLANEOUS

3.7.1. The Bidding Process shall be governed by, and construed in accordance with the laws of India and the Courts at (MADHUBANI) MUNICIPAL CORPORATION shall have the exclusive jurisdiction over all disputes arising under, pursuant to and/or in connection with the Bidding Process.

The MADHUBANI MUNICIPAL CORPORATION, in its sole discretion and without incurring any obligation or liability, reserves the right, at any time, to;

- i. Suspend and/or Cancel the Bidding Process and/or amend and/or supplement the Bidding Process or modify the Dates or other terms and conditions relating thereto;
- ii. Consult with any Bidder(s) in order to receive clarification(s) or further information(s);

- iii. Pre-Qualify or not to Pre-Qualify any Bidder(s) and/or to consult with any Bidder(s) in order to receive clarification(s) or further information(s);
- iv. Retain any information and/or evidence submitted to the MUNICIPAL CORPORATION by, on behalf of, and/or in relation to any Bidder(s); and/or
- v. Independently verify, disqualify, reject and/or accept any and all submissions or other information and/or evidence submitted by or on behalf of any Bidder.

4. TERMS OF REFERENCE (TOR)

A. TOR – CONTRACTOR/AGENCY

4.1. SCOPE OF WORK

4.1.1. Contractor/Agency will collect the Municipal Solid Waste (i.e. Plastic, Wet waste, Dry waste, Inert, Domestic hazardous waste, Sanitary waste etc.) in segregated manner from all the establishments falling under the Zone/Area/MUNICIPAL CORPORATION and transport the same to the Processing Site/Transfer Stations as the case may be. Contractor/Agency shall collect the waste from the Commercial areas, Garbage Vulnerable Points (GVP), Open points, Bulk Waste Generators, Sweeping waste from designated points and transport it to the Processing Site/Transfer Stations, as the case may be.

The scope of the work shall mean and include facilities and infrastructure for:

- Door to Door Collection of segregated MSW from Residential and Commercial Area in segregated manner
- Secondary Collection, Segregation, and Transportation of MSW from

transfer Station to the Processing and Disposal Site of concerned MUNICIPAL CORPORATION.

- Design, Develop, Construct and Operate & Maintain Transfer station. Contractor/Agency shall provide all machinery and equipment required for Transfer Station including Compactor Bins & Compactor Machines including Hook Loader.
- Collection and Transportation of sweeping Waste to designated disposal site/collection centres.
- Collection & Transportation of Horticulture Waste to designated processing site.
- Performance and fulfilment of all other obligations in accordance with the provisions of Contract Agreement and matters incidental thereto or necessary for the performance of any or all of the obligations under Contract Agreement.
- Supply of extra manpower during VVIP visits, special events and during the monsoon session if required.
- The scope of the Project shall also include any and all other activities that are ancillary to the above-mentioned scope of the Project.
- The Contractor shall ensure to conduct sweeping and cleaning of the selected Area/Colony/Wards (as given in annexure) including main roads, service roads, Internal Roads (streets, narrow streets, gullies) footpaths, pavements along the road, road berms, central verge, kerb channels, curb stones gully, drains, Pavement along

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the road etc., which means complete solution for RoW (right of way), the objective is to keep the areas litter and dust free for 24x7 as per following schedule:

Work shall be done essentially as per guidelines of MSW Rules 2024 (will be effective from 1 Oct 2025), MSW Rules 2016, Swachh Bharat Mission-2, CPHEEO Manual and Guidelines amended thereupon during concession period.

4.1.1.1. DOOR TO DOOR COLLECTION means that the collection of Municipal Solid Waste (MSW) shall be started from the MSW generator i.e. source. The Contractor/Agency shall collect segregated MSW in compartmentalized auto-tipper, tractor-trolley, handcarts etc. having colour coded system as per SWM Rules, 2016. The Contractor/Agency shall aim at 100% MSW collection and also shall segregate MSW while receiving from the source if it is delivered unsegregated. However, the MUNICIPAL CORPORATION shall endeavour/enforce source segregation practices on the waste generators through IEC initiatives, Incentivization, levying fines, etc. Efficiency has to be achieved by the mechanized system i.e. synchronized use of machinery and manpower. Manual systems will be allowed only on those roads where mechanized systems may not be feasible due to lesser right of way.

4.1.1.2. Transportation of MSW means the waste collected from the doorsteps of waste generators, GVP, sweeping waste, Dust-Bins and bulk waste generators is brought to the Processing Site/Transfer Stations (as the case may be), if required. The Transportation Vehicle shall be fixed with Geographic Positioning System (GPS) and a MIS based monitoring mechanism.

4.1.1.3. Segregation of MSW is a critical requirement since it enables recycling, reuse, treatment and scientific disposal of different components of waste. Therefore, MUNICIPAL CORPORATION shall emphasize on segregation of waste.

4.2. Manpower requirement as per CPHEEO and State Guidelines

The Contractor/agency will strictly ensure that minimum manpower is onboarded in the municipal corporation as per the CPHEEO (Central Public Health and Environmental Engineering Organization).

- Manpower for door-to-door garbage collection (2 persons per 200 households)
- 2 persons per 1 km road (both sides) for low and medium density road
- 3 Persons per 1000 Running Meters for High Density Road (Market, Commercial Area)
- Supply of manpower for Surface Drain Cleaning Team – 1 team (5 members per team) for every 5 wards
- Remuneration for supply of manpower for Vehicle Team:
 - o Small Tipper – 1 tipper (1 driver + 2 assistants) for 2,000 households (10,000 population ÷ 5)
 - o Tractor – 1 tractor (1 driver + 2 assistants) for 2,000 households (10,000 population ÷ 5)
 - o Back Hoe Loader – 1 Back Hoe Loader (1 driver + 1 assistant) for 10,000 households (50,000 population ÷ 5)
 - o Hyva Tipper – 1 Hyva Tipper (1 driver + 1 assistant) for 10,000 households (50,000 population ÷ 5)
 - o Pushcart/Tricycle/Wheel Barrow (1 Person for each) – Congested area – 1 vehicle per 300 households; for medium density area – 1 vehicle per 200 households and scattered area – 1 vehicle per 100 households
- 3 Supervisors per Ward

up

- Fogging Machine – 1 machine (1 operator + 1 assistant) for 10,000 households (1 Fogging Machine up to 50,000 population and additional one Fogging Machine for every additional 50,000 population)
- Quick Response Team (QRT) – 2 Teams for Nagar Nigam (1 Supervisor, 1 Driver, 3 Assistants per team)
- Toll-Free Number / Swachhta App / Other Mechanism – 2 shifts (2 persons per shift, total 4 persons) per MC

The above provision of manpower and vehicles is as per the relevant standard guidelines. However, the Municipal Corporation can reduce the number of manpower and vehicles as per their requirement.

4.3. ROLES & RESPONSIBILITIES OF THE CONTRACTOR/AGENCY

The Contractor/Agency shall be responsible for procuring any shortfall in vehicles, equipment, and assets required for door-to-door collection and secondary transportation of municipal solid waste, entirely at their own cost and through their own financing. All technical.

Specifications and quantities of such vehicles and equipment must be approved by the Commissioner of the Municipal Corporation/Municipal Council prior to procurement.

Additionally, the Contractor/Agency shall provide all necessary machinery and equipment required for operations at Transfer Stations. This includes compactor bins, compactor machines, and hook loaders.

To facilitate a smooth commencement of operations, the contractor/agency will assess the current vehicle status available with the MUNICIPAL CORPORATION. After the assessment, the cumulative estimated cost of these vehicles will be factored into the Capital Expenditure (CAPEX). The Contractor/Agency shall mandatorily use such vehicles for the remainder of their serviceable life for the transportation of municipal solid waste. Any repair, rectification, or repainting required for these vehicles shall be the sole responsibility of the Contractor/Agency. No reimbursement or claims shall be entertained by the MC for such repair or maintenance works. A MOU/Agreement shall be signed in this regard between both the parties stating the responsibilities of the agency wrt. Vehicles

All contractual and outsourced sanitation workers of the Municipal Corporation must be hired by the selected agency for this work on their payroll. The agency will be responsible for paying the sanitation workers either the minimum wage fixed/notified by the State Government or their current wage, whichever is higher

Contractor/Agency shall be responsible to procure all shortfall vehicle and equipment before COD and during active operation period as per approved operation plan submitted in accordance to clauses of concession agreement. Vehicles after expiry of natural life of vehicles, replacement vehicle will be provided by Contractor/agency on his own cost.

All safety precautions and INR 5 lac group insurance cover to be provided to every worker engaged for road sweeping and drain cleaning purposes by the bidder at his own risk and cost. Evidence of insurance/ESI/PF benefits given to the employee needs to be furnished before the authority.

The Bidders at their cost shall arrange, secure and maintain all insurance of the vehicles as may be pertinent to the Works/Services and obligatory in terms of law to protect their interest and interest of Municipal Corporation. The responsibility to maintain adequate insurance coverage at all times shall be of the agency alone. The Bidder's failure in this regard shall not relieve the agency of any of his contractual/legal responsibilities, obligations and liabilities. Any untoward accident from the vehicles shall be sole responsibility of the agency.

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The Contractor/Agency shall construct the transfer stations as per the provisions in SBM-Urban 2.0 guidelines and consent of Municipal Corporation in accordance with the provisions of this Agreement and based on detailed specifications, drawings, designs, and estimates duly approved by the Commissioner of the Municipal Corporation (MC). The Contractor/Agency shall be solely responsible for preparing the designs and "Good for Construction" (GFC) drawings required for the construction or modification of transfer facilities, including the installation of all necessary machinery and equipment.

4.3.1. Based on the household data Contractor/Agency shall define the total number of vehicles and manpower required for carrying out collection and transportation activities in the jurisdiction of the MUNICIPAL CORPORATION.

4.3.2. Contractor/Agency on the basis of all the data as mentioned above to design the Infrastructure as follows:

i. Total establishments in Colony/Sector/Townships/GHS etc.; (details to be verified in line to Table "A")

ii. Pushcarts: Total assigned Establishment (Establishments as per density as mentioned in ANNEXURE-7: FORMAT FOR MSW COLLECTION VEHICLES GAP ANALYSIS).

iii. Tricycle: Total Assigned Establishment (Establishments as per density as mentioned in ANNEXURE-7: FORMAT FOR MSW COLLECTION VEHICLES GAP ANALYSIS).

iv. LCV/Motorized Vehicle(s) required for one trip = Total or assigned house/households as per density as mentioned in ANNEXURE-7: FORMAT FOR MSW COLLECTION VEHICLES GAP ANALYSIS.

v. Contractor/Agency has to furnish a detailed sheet providing the detailed Gap analysis of Primary vehicles & Secondary vehicles to the MUNICIPAL CORPORATIONS. The Format for detailed sheet is attached at ANNEXURE-7: FORMAT FOR MSW COLLECTION VEHICLES GAP ANALYSIS.

4.3.3. Contractor/Agency shall provide the above data along with Operation plan to Municipal Commissioner as the case may be within Thirty (30) Days after issuing Letter of Award (LOA)/Work Order (WO):

i. The Detailed GAP Analysis sheet shall be submitted to Commissioner (in case of Corporation), Executive Officer (in case of Municipal Council), Secretary (in case of Municipal Committee) as the case may be along with the requirement as per gap analysis.

ii. The Contractor/Agency shall provide the Colony/Sector/Townships/Group Housing Schemes (GHS) etc., wise details of vehicle(s) deployed in MUNICIPAL CORPORATION. The details shall be furnished in the format attached at ANNEXURE-8: FORMAT FOR MSW COLLECTION VEHICLES.

iii. The Contractor/Agency shall provide the Colony/Sector/Townships/GHS etc., wise details of Manpower requirement in the MUNICIPAL CORPORATION.

iv. The basic detail of Staff deployed for daily activities of Door to Door collection of waste i.e. the Driver along with the subordinate shall be submitted to MUNICIPAL CORPORATION.

4.3.4. The contractor/agency will assess the current vehicle status available with the MUNICIPAL CORPORATION through a third-party assessment. The third party will determine the estimated cost of all the vehicles. The cumulative estimated cost of these vehicles will be factored into the Capital Expenditure (CAPEX) quotation provided by the bidder in their financial proposal. After the award of work, the MUNICIPAL CORPORATION will hand over all the vehicles to the agency.

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4.3.5. The requirement that comes after GAP analysis, Contractor/Agency shall deploy New Vehicle Fleet for 100% Door to Door Collection of MSW and Secondary Collection and Transportation of MSW of MUNICIPAL CORPORATION, by procuring on their own level and the same need to be checked on regular interval by Municipal Commissioner/Executive Officers/Authorized Persons as appointed by MUNICIPAL CORPORATION.

4.3.6. The Contractor/Agency shall ensure that all movable inventories for Door to Door collection of waste must be GPS enabled having proper partitions for segregated waste collection. GPS monitoring must be integrated with ICCS for smart cities.

4.3.7. The contractor/Agency shall ensure that all the new procurement of vehicles (Auto Tippers, E-Rickshaw, Pushcart/Tricycles) used for Door-to-Door collection of waste must be Electric/CNG and under permissible norms with valid registration and Insurance. In the event of a CNG gas station or charging station being unavailable, the agency can opt for diesel/petrol vehicles after obtaining approval from the Municipal Corporation.

4.3.8. Proper Dashboard for vehicle tracking system must be installed by the Contractor/Agency.

and the access to it should be provided to the MUNICIPAL CORPORATION

4.3.9. The Contractor/Agency shall ensure Door to Door collection of MSW in segregated manner from Waste Generators as per MSW Rule, 2016.

4.3.10. The Contractor/Agency should achieve 100% Door to Door collection efficiency in waste in segregated manner from each establishment.

4.3.11. The Contractor/Agency should make and publish time table for collection of waste (Door to Door vehicles) as per locality in consultation with MUNICIPAL CORPORATION and publish the same in Two (02) Local Newspapers (i.e. most popular/read newspaper) and Pamphlets, any change in Two (02) Local Newspapers and Pamphlets. The time table should also be provided to all RWAs, Market Associations, and Ward Councillors etc.

4.3.12. The Contractor/Agency will collect all the waste from commercial areas, main roads collection points twice a day (including night shift) from public areas and once in a day from the residential areas, as per schedule Timetable.

4.3.13. The solid waste collected and deposited through street sweeping at the designated sites shall also be collected and transported by the Contractor/Agency to the Processing Site/Transfer Stations (as the case may be). The concerned MUNICIPAL CORPORATION shall provide the list of all such points/designated sites to the Contractor/Agency.

4.3.14. The contractor/Agency shall share the information pertaining to duration of street sweeping and timing of pickup as per the mutual consent of Municipal Corporation.

4.3.15. The Contractor/Agency should provide Timetable along with route of vehicle in consultation with MUNICIPAL CORPORATION for;

i. Residential Areas Door to Door Collection of MSW.

ii. Commercial/Institutional Areas Door to Door Collection of MSW.

lii. Secondary Bin(s) waste collection.

4.3.16. The Contractor/Agency should make provision for collection & transportation of 100% waste in segregated manner, at his cost, using containerized motorized vehicle (such as auto tippers) or containerized tricycles, handcarts, compactors, dumpers, excavators, community bins or any other mechanical means or any device which is suitable for

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colletion wase as per Applicable Laws, without necessitating deposition of waste on the ground and multiple handling of waste.

- 4.3.17. The Contractor/Agency shall ensure that the colletion bins, vehicle, and devices are cleaned on a daily basis using disinfectants and waste should no be litterd around/outside the dustbins. Also, waste cannot be transported uncovered.
- 4.3.18. The contractor/Agnecy will have no right on user charges and will not collet the same from household/bulk waste Generator/institution/establishment/RWA or any other user/waste generator.
- 4.3.19 The contractor/Agency shall ensure minimum transportation and maximum household coverage of the primary collection vehicle.
- 4.3.20. Trasfer stations to be designed in such a way that waste can be transferred directly to secondary colletion vehicle from primary colletion vehicle.
- 4.3.21. The Contractor/Agency shall ensure the Secondary transportation of segregated waste from/transfer stations to the waste processing facility/site in case of Municipal Committee and Council.
- 4.3.22. The Contractor/Agency shall ensure elimination of all Garbage Vulnerable Points (GVPs) by preparing a plan in consultation with MUNICIPAL CORORATIONS within the limited frame and by the time, if same is not climinated, Contractor/Agency shall ensure 100% cleaning of Garbage Vulnerable Points (GVPs) in their area. If after repeated cleaning of GVPs, households/shop/rickshaws still dump garbage at GVP points than contractor can prepare the list of such units and submit it to the MUNICIPAL CORORATION for further action. Contractor/Agnecy shall assist the MUNICIPAL CORORATION in challenging to improve compliance.
- 4.3.23. The personnel should be smartly dressed in neat and clean uniform. The uniform(summers and winters) and Personal Protection Equipment (Shoe, Gum boots, Hand Gloves, Fluorescent Jacket, Masks, Caps, Soaps, sanitisers etc.) should be provided free of cost by the contractor. Contractor shall provide at least 2 sets of uniform to the workers every year. Contractor shall provide Identity Cards with Photo signed by th Concered Authority of the Contractor. Design of Such identity card & Uniform should be approved by Municipal Commissioner.
- 4.3.24. **Road Sweeping:** The Operator shall ensure to conduct sweeping and cleaning of the roads od project area with carriage way including services roads, Arterial Roads (streets, narrow streets, gullies) footpaths, road berms, central verge, curb channels, curb stones gully etc., which means complete solution for RoW (right of way) of roads, the objective is to keep the areas litter and dust free.
- 4.3.25. The performance shall be verified by Municipal Officials/Authority on the basis of total road length to be swept on daily basis and actual road length swept by the Concessionaire.The verification of work shall be done on the basis of log sheet, personal tracker report. The Concessionaire shall transport the sweeping waste directly to designated disposal site by the Authority.
- 4.3.26. MUNICIPAL CORPORATIONS should adjust the frequency of street cleaning based on local conditions, Also, the time of street cleaning should be carefully defined to avoid conflicts with traffic, parked vehicle, and pedestrians. The service should be carried our preferably during ours of less activities in the streets, e.g., early morning and at night.

Table 2.6: Street Sweeping Norms for Small towns or Small Citites or Mega Cities

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PLANNING FOR STREET SWEEPING			
	Small Town	Medium City	Mega City
Equipment	<ul style="list-style-type: none"> • Long handled broom • Metal tray and metal plate • Containerised handcart or tricycle • Tractor with covered trolley • Container lifting device 	<ul style="list-style-type: none"> • Long handled broom • Metal tray and metal plate • Containerised handcart or tricycle • Secondary storage bin • Dumper placer or compactor • Mechanical Street sweeper • Container lifting device 	<ul style="list-style-type: none"> • Long handled broom • Metal tray and metal plate • Containerised handcart or tricycle • Secondary storage bins • Dumper placer or compactor • Container lifting device • Mechanical street sweeper

Saff requirement based on road density	<ul style="list-style-type: none"> • High density roads: 1 person per 300- 350 running meters of road length • Medium density roads: 1 Person per 500 running meters of road length • Low density roads: 1 person per 750- 1,000 meters of road length 	<ul style="list-style-type: none"> • High density roads: 1 person per 300- 350 running meters of road length • Medium density roads: 1 Person per 500 running meters of road length • Low density roads: 1 person per 750- 1,000 meters of road length 	<ul style="list-style-type: none"> • High density roads: 1 person per 300- 350 running meters of road length • Medium density roads: 1 Person per 500 running meters of road length • Low density roads: 1 person per 750- 1,000 meters of road length
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Table 2.7: Typical Classification of Streets and Frequency of Sweeping

CLASS	CHARACTER OF STREET	FREQUENCY OF SWEEPING
A	City centre- shopping areas	Daily or twice, depending on need
B	Market areas	Daily
C	Minor steets	Daily
D	Sub-urban shopping streets	Daily
E	Residential Streets	Daily
F	Roads and streets having no house- holds or establishment on either sides	Once a week
G	Highways	Rarely necessary to sweep highways as motor traffic creates turbulence
H	Suburban main streets	Twice a Week
I	Open spaces	Occasionally, when required(minimum once in 2 weeks)

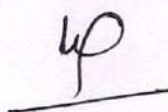
Time Schedule for Manual Sweeping

S. No.	Activity	Time Schedule
1	Manual/Mechanical Cleaning & Sweeping of Roads	Shift- I: 7:00 AM to 11:00 AM Shift-II: 1:00 PM to 5:00 PM
The above timings are tentative; the bidder can decide in consultation with the authority/Municipal Bodies for change in timing as & when the situation demands. Daily 8 hours of work is required.		

4.4. IT- ENABLED MONITORING

IT- Enablement Monitoring of movable inventory along with activities related to collection & transportation to be carried out by the Contractor/Agency:

- 4.4.1. MUNICIPAL CORPORATION shall ensure that the Contractor/Agency has submitted the details of the route fixed for vehicle for Door-to Door collection of MSW as per format attached at **ANNEXTURE-10: FORMAT FOR ROUTE PLAN FOR DOOR TO DOOR WASTE COLLECTION.**
- 4.4.2. In order to monitor the movement of Door to Door waste collection vehicle as per the route map of the vehicle submitted by the Contractor/Agency, GPS must be installed in the old and new vehicle within 60 days of signing agreement.
- 4.4.3. The Contractor/Agency shall also submit the area-wise route map of vehicles with a Timetable ever month to ensure 100% Door to door collection. An example of the route map prepared is attached a **ANNEXTURE-11: EXAMPLE OF ROUTE MAP for reference.**
- 4.4.4. RFID tags shall be installed at all the vehicles and QR codes shall be installed at each and every entry and exit of lanes and streets in the MUNICIPAL CORPORATION area, all the garbage collection bins and secondary collection points to ensure the tracking of every vehicle.
- 4.4.5. The Bidder will be required to install RFID tag with suitable scanning method at cluster of 20 units each on the routes defined for the waste collection of the area, with consultation of the Municipal Corporation. For example, an area/ward with 1000 units will have around 50 such RFID tags that will be scanned while extending the service.
- 4.4.6. MUNICIPAL CORPORATION shall ensure that the Contractor/Agency has submitted the area-wise list of IT- Enabled (i.e. GPS, RFID Tags and Readers, etc.) vehicles which are deployed in the MUNICIPAL CORPORATION.
- 4.4.7. The Route map prepared by the Contractor/Agency in discussion with MUNICIPAL CORPORATION shall be reviewed by MUNICIPAL CORPORATIONS once in a Month for updation/correction, if required to ensure maximum coverage.
- 4.4.8. Also, The Contractor/Agency shall ensure:
- 4.4.8.1. Management Information System (MIS) with real-time update parameters of project (Link to be provided to MUNICIPAL CORPORATIONS).
- 4.4.8.2. Radio Frequency Identification Device (RFID) for route optimization at various locations, collection route, project site, entry & exit point of Lanes, Streets.
- 4.4.8.3. All the vehicles should have Reading/Scanning devices.



4.4.8.4. RFID Tags should be installed at every entry and exit of lanes, societies, RWA, Sectors (to be able to scan by the vehicle mounted RFID scanners) after conducting proper survey in consultation with MUNICIPAL CORPORATION.

4.4.8.5. The Contractor/Agency will deploy a senior staff with an adequate number of personnel to MUNICIPAL CORPORATION for co-ordination with following qualification:

- i. Any Graduate with Ten (10) Years of overall experience out of which having atleast Five (05) Year of relevant experience of any Solid Waste Management Project.
- ii. Knowledge of MS office.

4.4.9. To ensure efficient monitoring of Door-to-Door Collection & Transportation of segregated MSW, the following IT-Enabled mechanisms shall be adopted:

S. No.	IT Components	Application of the System
1	GPS installation in all Vehicles	
	Each vehicle deployed for waste collection and transportation shall have a GPS system installed and maintained in working condition at all times.	Monitor and keep record of trips completed by vehicles. Plan efficient waste collection schedule in minimum trips.
	The GPS feed from these systems shall be integrated with the Participating MUNICIPAL CORPORATIONS' portals for real-time	
2	RFID Tags, Tag readers	
	All vehicles should be equipped with reading/scanning devices for QR code and RFID tags. These scanning devices shall be utilised to scan installed QR codes and RFIDS at sector, RWA, Society, Garbage collection bins and secondary collection points.	To ensure 100% household waste collection
3	Real-Time monitoring and integration of system	

	The Contractor/Agency shall provide real-time feed and monitoring of GPS and RFID Tags through web-based technology.	Ensures automatic tracking and recording of vehicle identification and movement in all vehicles. Optimise use of deployed resources
	The moveable inventory (collection vehicles, compactor vehicles, dumpers, excavators, loaders and etc.) should be Global Positioning System (GPS) and Radio frequency Identification device (RFID) enabled connected to Management Information System (MIS) system,	
4	RFID Tags; Installation and Survey	
	RFID Tags should be installed in MUNICIPAL CORPORATION area after conducting a proper survey, The location of each RFID Tag should be marked on the GPS Tool/Dashboard, ensuring accurate tracking and monitoring.	To ensure 100% service Coverage in all areas of MUNICIPAL CORPORATION for waste collection and transportation.

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	Contractor/Agency should update the GPS Tool/Dashboard with the location of each RFID Tag, and any changes in location should be promptly updated in the GPS Tool/Dashboard.	Track and resolve real time issues regarding waste collection. Minimize leakages (or escapes) in the system.
5	Integration of System with ICCC (Integrated Control and Command Centre)	
	The GPS and RFID Tags should be Integrated with Management Information System (MIS). The MIS should be integrated with the ICCC portals for seamless data flow. The above should be responsibility of the Contractor/Agency to install and implement the above.	Inspection and monitoring by independent expert and MUNICIPAL CORPORATION officials.
6	Biometric attendance	
	Daily Attendance of Manpower - Face ID, Biometric, etc.	To ensure 100% attendance

4.4.10. The selected bidder is also required to regularly submit information/data using Web portal/Mobile app developed by MUNICIPAL CORPORATION including the details given below:

- i. Details of Manpower deployed: Name, mobile number, Aadhar number, Photograph etc. (Web portal).
- ii. Vehicle information: Registered Number, Make, Model, Photograph etc. (Web portal).
- iii. Route Master/ Area of Work for deployed vehicles and manpower(Web portal).
- iv. Type of work assigned and area assignment (colonies) to Manpower (Web portal).

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- v. Vehicle area assignment / Deployment plan of all vehicles (Web portal).
- vi. Daily Attendance of manpower by Supervisor (Mobile App).
- vii. Report households not giving segregated waste (Mobile App).

4.5. TRANSFER STATIONS

4.5.1. The Municipal Commissioner will provide the details of the existing transfer station in the tender document. However, bidders are expected to estimate the number of transfer stations as per the guidelines of the CPHEEO manual, SBM (U) 2.0 guidelines, and subject to the consent of Municipal Commissioners.

4.6. IEC ACTIVITIES FOR BEHAVIOUR CHANGE

4.6.1. IEC activities are necessary in creating awareness among the community, and preparing residents for upcoming projects, informing about SWM Rules, source segregation, health and environment impacts, Waste Management Project, etc. Possible tools of IEC will be through websites, mass media communication strategies such as newspaper releases, hoardings, glow sign boards, radio, TV, street plays, awareness campaigns at schools etc.

4.6.2. AWARENESS CAMPAIGN

Level of awareness and attitudes of students will significantly influence the waste disposal practices in the MUNICIPAL CORPORATION. The MUNICIPAL CORPORATION and contractor/agency shall run large scale awareness campaign in all the Schools/Colleges/Universities or other educational institutes.

4.6.3. The IEC activities to be carried out by the Contractor/Agency is as follows:

4.6.3.1. The Contractor/Agency shall also distribute the pamphlets to all the establishments with list of do's and don'ts for creating awareness.

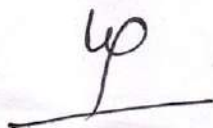
4.6.3.2. The Contractor/Agency shall organize training programs for RWAs to motivate the community towards waste management for ensuring the sustainability of a system at least once in a month.

4.6.3.3. The Contractor/Agency shall install speakers on each vehicle for awareness campaign for playing Jingles and should be well equipped by the provisions to play the jingles.

4.6.3.4. The Contractor/ Agency shall conduct following campaigns at various Levels for creating awareness among society about waste segregation practice; waste disposal practices and promoting practical approaches for reduce, reuse and recycle of MSW.

(i) School Campaigns

- a) Contractor/agency shall conduct campaigns in schools to educate the students about types of waste, waste segregation, etc.
- b) Contractor/Agency shall circulate the Pamphlet among students to create awareness about source segregation.



c) Contractor/Agency will ensure to organize clean-up drives within the school premises or in nearby areas once in Six (06) Months.

d) Contractor/Agency in coordination with schools will engage students in raising awareness about the importance of keeping the environment clean. Such activities shall tailor according to the age group, interests, and educational level of the students_ Collaboration with local waste management authorities, NGOs, and environmental organizations can enhance the effectiveness of your awareness campaigns.

(ii) The Contractor/Agency shall install the following Displays and Signages:

S.No.	Displays and Signages	Location and Specifications
1	On all the Waste Collection Vehicles, devices and Community bins	<ul style="list-style-type: none">• A logo of the MUNICIPAL CORPORATION and Swachh Bharat Abhiyan logo of at least 12 inches by 12 inches size (font size of 6-9 inches) size.
2	On All secondary storage equipment	<ul style="list-style-type: none">• A logo of the Participating MUNICIPAL CORPORATION and Swachh Bharat Abhiyan logo of at least 12 inches by 12 inches size (font size of 6-9 inches) size.• Other advertisement with prior approval of MUNICIPAL CORPORATION.• Any other advertisement as per any other advisory abides by the law.
3	Sign Board adjacent to main Entrance of Transfer station	<ul style="list-style-type: none">• At least 1(one) signboard with details (capacity, contact details and warnings) about the transfer station in local language, Hindi and English of a size not less than 2 ft. by 4 ft. each, adjacent to the main entrance to in a manner that it is ordinarily visible to any person using such entrance.

4.7. SETTING UP COMPLAINT REDRESSAL CENTRE BY THE CONTRACTOR/AGENCY

4.6.1 The Contractor/Agency working in the Municipal Corporation shall setup at least One (1) Complaint Redressal centre for easy monitoring of operations of the Project and establishment of standard protocol to address customer complaints.

4.6.2 The telephonic complaint received in Complaint Redressal Centre shall be recorded by Contractor/Agency as per format given in **ANNEXURE-14: FORMAT FOR CONTRACTOR/AGENCY COMPLAINT REGISTER.**

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4.6.3 The complaints received telephonically or written should be entered on online complaint portal of MC. This should be ensured by the Contractor/Agency. All such complaints should be entered on portal on same day as and when received and it should be resolved within 24 hours

4.6.4 There shall be an online platform provided by the MUNICIPAL CORPORATION wherein all the complaints shall be received and redressed within 24 hours.

4.6.5 Brief Mechanism of Complaint Redressal Centre is provided as below:

S.No.	DESCRIPTION	REQUIREMENTS
1	Modes of Complaint Registration	<ul style="list-style-type: none"> Complaints received on Online portal. The Complaint Redressal Centre should be capable of registering complaints through written communication, telephone calls, and personal visits by consumers. The Complaint Redressal Centre should provide support in English, Hindi, and the Regional Language to cater to the language preferences of the customers.
2	Dedicated Phone Lines to be set up	<ul style="list-style-type: none"> The Complaint Redressal Centre should have a minimum of three operational dedicated phone lines for receiving customer calls and complaints.
3	Display of Contact Information	<ul style="list-style-type: none"> The telephone numbers of the Complaint Redressal Centre should be clearly displayed on all secondary storage equipment and transportation vehicles. The contact numbers should be mentioned in English, Hindi, and the Regional Language to ensure accessibility for all customers.
4	Operational Hours	<ul style="list-style-type: none"> The Complaint Redressal Centre should remain operational from 6 AM to 5 PM, Seven (7) Days a week.
5	Complaint Verification and Redressal	<ul style="list-style-type: none"> All received complaints should be verified by the Complaint Redressal Centre. Complaints should be redressed within timelines provided in Right to Service Act.
6	Complaints through Participating MUNICIPAL CORPORATION	<ul style="list-style-type: none"> Aggrieved residents can also register their complaints directly with the offices of the Participating MUNICIPAL CORPORATIONS. Each Participating MUNICIPAL CORPORATION should designate a Nodal Officer to receive and forward such complaints to the Complaint Redressal Centre. Integration with ICC for disposal of complaints received

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4.8. DOCUMENTATION FOR CLAIMING THE PAYMENT BY THE CONTRACTOR/AGENCY

4.8.1. The Contractor/Agency shall strictly follow the formats for claiming the payment as per the format at ANNEXURE-6: FORMAT FOR MONTHLY INVOICE, and should submit the following documents along with the bill:

- i) RFID tags should be scanned on daily basis by the Door to Door collection vehicles. Moreover, in absence of RFID Tags Data; GPS Data/Details shall be submitted.
- ii) Biometric Attendance of all the employees.
- iii) Copy of weigh slip of each vehicle weight on the weigh bridge and same shall be updated on MIS.
- iv) Calibration of Weigh Bridge (as per Standard Norms).
- v) Date-wise quantity of waste collected.
- vi) IEC activities undertaken.
- vii) MIS of disposal of each and every complaint received on call centre or any other means.
- viii) Record of waste handed over to Transfer Stations/ agency responsible for processing. **B.**

TOR — Municipal Corporation

4.9. SCOPE OF WORK

The Municipal Corporation would be required to provide the under-mentioned Project related services to the Contractor/Agency;

- 4.9.1. Concerned Municipal Corporation shall prepare complete city profile under the supervision of Deputy Municipal Commissioner which shall include all types of properties such as residential, commercial, institutional, industrial etc. **in the Table "A" at 1.1.3.** Municipal Corporation shall prepare the same on the basis of densities/zone potentialities of properties
- 4.9.2. The respective Municipal Corporation will determine the requirement for a transfer station. If necessary, the details may be included in the tender document by the Municipal Corporation.
- 4.9.3. City Profile prepared by the Municipal Corporation shall also include the detailed information regarding the current movable and immovable inventory available to the Municipal Corporation, and the requirements of the same as per SWM Rules 2016. Please use the following details for the bid:

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z	Parameter	Details
A	General	
1	Existing Population	213550
2	Number of Establishments (in Table "A")	44490
3	Number of Colony/Sector/Townships/GHS, etc.	75
B	Site Details	
1	Details of sites for Transfer Stations/Secondary Collection Points	
2	Kindly confirm that the allocated site for Transfer Stations/Secondary Collection Points has been demarcated and is unencumbered and vacant.	No
C	Details of Primary & Secondary Collection Vehicles available with Municipal Corporation in good condition (Not old than three years)	
1	No. of E- Rickshaws (Currently Available)	20
	Total Requirement	45
	(1E- Rickshaw can cover maximum 350 Households)	1000
2.	No. of Light Commercial Vehicle (LCV) (Currently Available)	8
	Total Requirement-	37
	(1LCV/Auto Tipper- 1500 Kg Net Load can cover maximum 1200 Households)	
3.	No. of Refused Compactors/Portable Compactors (Currently Available)	0
	(1 Portable Compactor can manage maximum 30 MT per Day)	
4	No. of Hand Pulling Rickshaws	132
5.	No. of JCB/Dumpers	03
6.	No. of Tractor required	15
7.	Excavator Required	03 (1BIG 2SMALL)
8.	ROAD SWEEPING MACHINE REQUIRED	01

up

4.9.4. Municipal Corporation shall provide the list of Transfer stations available in the MC area. The details shall be furnished as per the format attached at **ANNEXURE-18: FORMAT FOR LAND ALLOTMENT FOR TRANSFER STATIONS.**

4.9.5. Handover site to the Contractor/Agency the existing infrastructure of C&T like dumper bins, Primary and Secondary vehicles i.e., Tricycles, E-Rickshaw, Auto-Tippers, JCB, Dumpers, Portable Compactors, Hook Loaders (**not old than four years**), transfer stations etc. to be deployed in the MCs, on an **“as is where is basis”**.

4.9.6. MC to allocate/give appropriate land area for the **Parking of Vehicles Fleet, Maintenance Shed, and Store Room.**

4.9.7. **Electricity Connection up to the gate of Parking Sites is the responsibility of Municipal Corporations/MCs.**

4.9.8. Collection of User Charges will be done by the MC and it is not in the scope of Contractor/Bidder.

4.9.9. Monthly Coordination & Monitoring meeting with agency staff and MC’s staff for project development and monitoring progress.

4.9.10. MC shall ensure that the movable inventory provided by the Contractor/Agency (collection vehicles, compactor vehicles, dumpers, excavators, loaders and etc.) shall be Global Positioning System (GPS) and Radio Frequency Identification Device (RFID) enabled and shall be connected to Management Information System (MIS) provided by MC and shall be as per SWM Rules 2016 and other Applicable Laws.

4.9.11. Various commit compliance of Bulk Waste Generator (BWG) regulations should be implemented and in place where BWGs like dhabawalas, small restaurants don’t have space, their waste should be sent to community composting/processing through the Contractor/Agency. Such BWGs should be charged extra fees for Collection & Transportation of their waste by the Contractor/Agency. These extra charges/User Fee will be charged by MC. MC may define these charges.

4.10. ENFORCEMENT FOR SUSTAINING SOLID WASTE MANAGEMENT SYSTEM

Effective enforcement of directives is crucial for establishing an efficient solid waste management system in the MC. It is essential to constitute committees tasked with monitoring the progress and enforcing penalties, if necessary.

4.10.1. The Committee will include Municipal Commissioner as president, AMC/DMC and APSWMO as member secretary.

4.10.2. The Nodal Officer i.e. APSWMO, will monitor the enforcement activities on a daily basis.

4.10.3. Penal provisions in case of Non-Compliance shall be ensured so that proper implementation of the campaign can be done.

4.10.4. Detailed role and responsibilities of various units is as below:

4.10.4.1. Monitoring by In-charge i.e. Municipal Commissioner of MUNICIPAL CORPORATION (MC)

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- i. Municipal Commissioner shall monitor the progress of each municipal corporation and conduct a review meeting every month.
- ii. MC may set-up a project Implementation Unit which will be responsible for monitoring of the project at district level.
- iii. MC shall assign targets to nodal officers for efficient and time-bound implementation.


5. PENALTIES

5.1 PENALTIES & DEFAULTS

- 5.1.1 Municipal Commissioner shall authorize the Enforcement Team in each respective area for imposing penalties.
- 5.1.2 Deduction on account of damages for delays under this clause put together shall be subject to a maximum of 10% of the entire value of the contract of services. Once the maximum is reached, the Municipal Corporation has the right to issue the termination notice.
- 5.1.3 Penalties shall be levied on Residential, Commercial Units and the Contractor/Agency in case of non-compliance of SWM Rules, 2016 & SWM by-Laws.
- 5.1.4 After 120 days of the starting of the work, Penalty as per the efficiency of Waste collection from total establishment will be levied as tabulated below:

Waste Collection Efficiency in Percentage (%)	Penalty, Per Day
90% and above	No Penalty
From 80% to 89%	1% of the Total Monthly Bill
From 70 to 79%	5% of the Total Monthly Bill
From 60 to 69%	15% of the Total Monthly Bill
From 50 to 59%	20% of the Total Monthly Bill
Below 49%	50% of the Total Monthly Bill and if violation continued upto Twenty (20) Days, the Termination Process of the Contract Should be Initiated.

- 5.1.5 For Non-functioning of Complaint Redressal Centre penalty of INR One Thousand Only (INR 1000/-) per day will be levied.
- 5.1.6 For not attending the complaints received by any means within Twelve (12) Hours, penalty of INR Two Hundred Only (INR 200/-) per complaint will be levied.
- 5.1.7 For Motorised vehicles for Door to Door collection without fixed compartment and without fabricated covering (temporary arrangement like cloth covering, trampoline sheet or any other temporary covering or arrangement will not be allowed) for collection of MSW in municipal Corporation area, Penalty of INR One Thousand (INR 1000/-) per day per vehicle will be levied.
- 5.1.8 For any littering/Spillage of solid waste during transportation, Penalty of INR One Thousand (INR 1000/-) per Day per Instance will be levied.



5.1.9 For burning of garbage by any agency/employee of the Contractor/Agency, Penalty of INR Five Thousand (INR 5,000/-) per Day per Instance or as per NGT Guidelines; whichever is higher, will be levied.

5.1.10 If any sanitation worker is found performing sanitation related work without uniform and PPE as per MSW rules 2016, Penalty on INR Five Hundred (INR 500/-) per Day per Worker will be levied.

5.1.11 In case Contractor/Agency found dumping the collected waste illegally (at any site, other than the designated sites by MC) then the following penalties shall be levied on agency:

S.No.	Default	Penalty
1	In case of 1st	1% of the Total Collection and Transportation Amount of That particulars Month
2	In case of 2nd	5% of the Total Collection and Transportation Amount of that particular Month
3	In case of 3rd	10% of the Monthly Collection Money
4	In case of 4th	The Termination of the Agreement may be proposed

5.1.12 In case if C&D waste is found being transported to the any designated site/ solid waste processing site/transfer Station under this contract, the Contractor/Agency shall be liable for the Penalty of INR Five Thousand (INR 5,000/-) per instance.

5.1.13 Construction and Demolition waste cannot be mixed with Municipal Solid Waste, if found, The Contractor/Agency will face a Penalty of INR Five Thousand (INR 5,000/-) per instance.

5.1.14 Penalties w.r.t default for RFID and GPS:

S.No.	Default	Penalty
1	In case of GPS not working on vehicles	INR five Hundred (INR 500/-) per Day per Vehicle
2	In case RFID not installed on the Vehicles within Fifteen (15) Days from the signing of the Agreement	INR Five Hundred (INR 500/-) per Day per Vehicle
3	In case of RFID not working on vehicle(s) for more than 3 days	INR Five Hundred (INR 500/-) per Day per Vehicle
4	In case, RFID in not installed on streets/lanes, etc. as per conditions specified under RFP	INR Five Hundred (INR 500/-) per Day per Vehicle

5.2 OTHER PENALTIES

5.2.1 In addition to above, following Penalties shall also be imposed based on the score obtained during respective "Swachh Survekshan" for Collection and Transportation of MSW

HP

S.No.	Score in "Swachh Survekshan" (For the component of Door to Door Collection, Segregation & Transportation of MSW)	Penalty
1.	70 to 75% of Total Score	1.5% of the Annual Bill Amount
2.	75 to 85% of Total Score	0.75% of the Annual Bill Amount
3.	85 to 95% of Total Score	NIL

5.2.2 If the score of the municipal corporation concerned comes out below 70% in the Swachh Survekshan (For the component of Door-to-Door Collection, Segregation & Transportation of MSW) for two (02) consecutive years, the contract shall be terminated or any other appropriate action can be taken by the municipal corporation.

6. MANUAL ROAD SWEEPING PENALTIES

S.No.	Particulars	Amount
1.	For poor quality of sweeping work (waste is not cleaned or sweeping is not proper)	1NR 1,000/Per day
2.	Short deployment of manpower, machinery and cleaning reagents	1NR 2,000 for each instance of short deployment/
3.	Failure to provide logbook details	1NR 500 per day
4.	Failure to setup Bio-Metric/Digital attendance system within two month of the date of start of work for attendance and movement tracking devices	1NR 500 per day
5.	Failure to share real time data with the Authority in the prescribed format/ Integration of APIs with the Authority"s systems not enabled.	1NR 500 per day
6.	Failure to provide protective gear to workers	1NR 200 per worker per day

6 Payment

6.1.1 All the Payments shall be made as per **ANNEXURE-6: FORMAT FOR PAYMENT.**

6.1.2 Contractor shall prepare monthly running Bill for the work actually done during previous month on the basis of BOQ. The bill shall be submitted by Contractor\Agency on or before 7th day of each month.

6.1.3 Municipal Corporation will pay 70% of the amount within fourteen (14) working days upon submission of bills.

6.1.4 Municipal Corporation shall make complete verification of work along with due scrutiny of records and shall arrive at Monthly Invoice Payable after deduction of performance-based penalty and other penalties (if applicable)

Monthly Invoice Payable (MIP) = Monthly Invoice (MI) — Performance based penalty (PP) - other penalties (if applicable)

6.1.5 Municipal Corporation shall release balance amount after deducting the penalties and payments already made in accordance with clause 6.1.3, up to 7th of next month. Total time period should be within 30 working days for clearance of monthly bills.

6.1.6 Deductions from the Payment will be made if available towards Income Tax, Service Tax etc as per provisions of the statutory authorities, in force from time to time in the State of Bihar. The Contractor\agency is expected to include all such charges at the time of bidding submission. Any new taxes, increase in such tax's imposed/ applicable during the contract period shall be reimbursed by Municipal Corporation as per actuals after submitting the proof of the same.

7. PROJECT MILESTONES/TIMELINES

7.1 BIDDING MILESTONES/TIMELINES

S.No.	MILESTONE	TLMELINES	
		DATE & TIME	REMARKS
1	Invitation of Bid(s)		
2	Pre-Bid Meeting		within Seven (07) Days from Invitation of Bid(s)
3	Submission of Bid(s)		On Twenty-First (21) Day from Invitation of Bid(s)
4	Opening of Bid(s): Pre Qualification/Technical Bid(s)		On Twenty-Third (23) Day from Invitation of Bid(s)
5	Submission of Physical Hard of Proof of Bid Security/EMD, Power of Attorney and Affidavits in original	On Twenty Second (22) Day	from Invitation of Bid(s); prior to Opening of Bid(s): Pre- Qualification/Technical Bid(s)
6	Opening of Bid(s): Financial Bid(s)	DD.MM.YYYY; 11:00 PM (IST)	After completion of Bid Evaluation -Technical Bid — Part I
7	Issuance of Letter of Award (LOA)	DD.MM.YYYY; 05:00 PM (IST)	After completion of Bid Evaluation — Financial Bid — Part II

7.2 PROJECT MILESTONES

S.No.	MILESTONE	TIMELINES	
		DATE	REMARKS
1.	Mobilization of Team	DD.MM.YYYY	Before the Commencement

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2. 2	Submission of Detailed Action Plan	DD.MM.YYYY	Thirty (30) Days prior of the Commencement Date of
3. 3	Mobilization of Equipment(s)	DD.MM.YYYY	Two (2) Days prior of the Commencement Date of
4. 4	Commercial Operations Date (COD) 100% Door to Door Collection	DD.MM.YYYY	Within One Fifty (150) Days from Commencement of Work
5. \$	Setting Up of Complaint Redressal Centre	DD.MM.YYYY	Before Commencement of Work
6. 6	Installation of GPS on Vehicle(s)	DD.MM.YYYY	within Sixty (60) Days from the Commencement of Work
7. 7	Installation of RFID Tags on each Entry and Exit of lanes, streets	DD.MM.YYYY	Within One Eighty Days (180) Days from Commencement of Work

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INSTALLATION OF GPS ON VEHICLE(S), INSTALLATION OF RFID TAGS ON EACH ENTRY AND EXIT OF LANES, STREETS OF RWA, SOCIETIES, SECTORS

S.No.	MILESTONE	TIMELINES	
		DATE	REMARKS
a)	Completion of 25% of said activities	DD.MM.YYYY	within Fifteen (45) Days from Commencement of Work
b)	Completion of 50% of said activities	DD.MM.YYYY	within Thirty (60) Days from Commencement of Work
c)	Completion of 75% of said activities	DD.MM.YYYY	within Forty-five (90) Days from Commencement of Work
d)	Completion of 100% of said activities	DD.MM.YYYY	within One Eighty Days (180) Days from Commencement of Work

8 FORCE MAJEURE AND CHANGE IN LAW

8.1 Force Majeure Event

Any of the following events which is beyond the control of the Party claiming to be affected thereby ("Affected Party") and which the Affected Party has been unable to overcome or prevent despite exercise of due care and diligence, and results in Material Adverse Effect shall constitute Force Majeure Event:

- earthquake, flood, inundation and landslide
- Epidemic & Pandemic
- storm, tempest, hurricane, cyclone, lightning, thunder or other extreme atmospheric disturbances

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- d) fire caused by reasons not attributable to the Contractor\Agency or any of the employees, Contractors or agents appointed by the Contractor\Agency for purposes of the Project;
- e) acts of terrorism;
- f) strikes, labour disruptions or any other industrial disturbances not arising on account of the acts or omissions of the Contractor\Agency or the Contractor
- g.) action of a Government Agency having Material Adverse Effect including but not limited to
 - i. acts of expropriation, compulsory acquisition or takeover by any Government Agency of the Project/Project Facilities or any part thereof or of the Contractor\Agency's or the Contractor's rights in relation to the Project,
 - ii. any judgment or order of a court of competent jurisdiction or statutory MUNICIPAL CORPORATION in India made against the Contractor\Agency or the Contractor\Agency in any proceedings which is non-collusive and duly prosecuted by the Contractor\Agency, and
 - iii. any unlawful, unauthorised or without jurisdiction refusal to issue or to renew or the revocation of any Applicable Permits, in each case, for reasons other than Contractor\Agency's or the Contractor's breach or failure in complying with the Project Requirements, Applicable Laws, Applicable Permits, any judgment or order of a Governmental Agency or of any contract by which the Contractor\Agency or the Contractor\Agency as the case may be is bound.
- (h) early termination of this Agreement by MUNICIPAL CORPORATION for reasons of national emergency or national security.
- (i) any failure or delay of a Contractor/Agency caused by any of the sub-clauses (f) and
- (g) hereinabove, for which no offsetting compensation is payable to the Contractor\Agency by or on behalf of the Contractor.
- (j) War, hostilities (whether declared or not), invasion, act of foreign enemy, rebellion, riots, weapon conflict or military actions, civil war, ionising radiation, contamination by radioactivity from nuclear fuel, any nuclear waste, radioactive toxic explosion, volcanic eruptions, any failure or delay of a Contractor/Agency caused by the events mentioned in this sub-clause for which no offsetting compensation is payable to the Contractor\Agency by or on behalf of the Contractor.

8.2 Notice of Force Majeure Event

- a) As soon as practicable and in any case within 7 days of the date of occurrence of a Force Majeure Event or the date of knowledge thereof, the Affected Party shall notify Project Monitoring Consultant and the other Party of the same setting out, inter alia, the following in reasonable detail:
 - i. the nature and extent of the Force Majeure Event;
 - ii. the estimated Force Majeure Period;
 - iii. the nature of and the extent to which, performance of any of its obligations under this Agreement is affected by the Force Majeure Event;
 - iv. the measures which the Affected Party has taken or proposes to take to alleviate/mitigate the impact of the Force Majeure Event and to resume performance of such of its obligations affected thereby; and
 - v. any other relevant information concerning the Force Majeure Event, and /or the rights and obligations of the Parties under this Agreement.

- (b) As soon as practicable and in any case within 5 days of notification by the Affected Party in accordance with the preceding clause (a), the Parties shall along with the PMC, meet, hold discussions in good faith and where necessary conduct physical inspection/survey of the Project Facilities in order to:
- i. assess the impact of the underlying Force Majeure Event,
 - ii. to determine the likely duration of Force Majeure Period and,
 - iii. to formulate damage mitigation measures and steps to be undertaken by the Parties for resumption of obligations, the performance of which shall have been affected by the underlying Force Majeure Event.
- (c) The Affected Party shall during the Force Majeure Period provide to the other Party and the Project Monitoring Consultant regular (not less than weekly) reports concerning the matters set out in the preceding clause (b) as also any information, details or document, which the other Party may reasonably require.

8.3 Performance of Obligations

If the Affected Party is rendered wholly or partially unable to perform any of its obligations under this Agreement because of a Force Majeure Event, it shall be excused from performance of such obligations to the extent it is unable to perform the same on account of such Force Majeure Event provided that:

- a) due notice of the Force Majeure Event has been given as required by.
- b) the excuse from performance shall be of no greater scope and of no longer duration than is necessitated by the Force Majeure Event;
- c) the Affected Party has taken all reasonable efforts to avoid, prevent, mitigate and limit damage, if any, caused or is likely to be caused to the Project Facilities as a result of the Force Majeure Event and to restore the Project Facilities, in accordance with the Good Industry Practice and its relative obligations under this Agreement;
- d) when the Affected Party is able to resume performance of its obligations under this Agreement, it shall give to the other Party and the Project Monitoring Consultant written notice to that effect and shall promptly resume performance of its obligations hereunder, the non-issue of such notice being no excuse for any delay for resuming such performance;
- e) the Affected Party shall continue to perform such of its obligations which are not affected by the Force Majeure Event and which are capable of being performed in accordance with this Agreement; and
- f) any insurance proceeds received shall be, subject to the provisions of Financing Documents, entirely applied to repair, replace or restore the assets damaged on account of the Force Majeure Event, or in accordance with Good Industry Practice.

8.4 Termination due to Force Majeure Event

(a) Termination

- (i) If a Force Majeure Event, excluding events described under Clauses, continues or is in the reasonable judgment of the Parties likely to continue beyond a period of 120 days, the Parties may mutually decide to terminate this Agreement or continue this Agreement on mutually agreed revised terms. If the Parties are unable to reach an agreement in this regard, the Affected Party shall after the expiry of the said period of 90 days, be entitled to terminate this Agreement.

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Notwithstanding anything inconsistent contained in this Agreement, if a Force Majeure Event is an event described under Clauses, and the same subsists for a period exceeding 365 days, then either Party shall be entitled to terminate this Agreement.

Provided that MUNICIPAL CORPORATION may at its sole discretion have the option to terminate this Agreement any time after the occurrence of any event described under Clauses.

(b) Termination Notice

If either Party, having become entitled to do so, decides to terminate this Agreement pursuant to the preceding clause (a), it shall issue Termination Notice setting out;

- i. in sufficient detail the underlying Force Majeure Event;
- ii. the Termination Date which shall be a date occurring not earlier than 60 days from the date of Termination Notice;
- iii. the estimated Termination Payment including the details of computation thereof and;
- iv. any other relevant information.

(c) Obligation of Parties

Following issue of Termination Notice by either Party, the Parties shall promptly take all such steps as may be necessary or required to ensure that;

- (i) the Termination Payment, if any, payable by MUNICIPAL CORPORATION in accordance with the following **clause (d)** is paid to the Contractor\Agency on the Termination Date and
- (ii) the Project Facilities are handed back to MUNICIPAL CORPORATION by the Contractor\Agency on the Termination Date free from all Encumbrance.

(d) Termination Payment

Upon Termination of this Agreement due to a Force Majeure Event, Termination Payment shall be made to the Contractor\Agency by MUNICIPAL CORPORATION in accordance with the following:

- (i) If Termination is due to a Force Majeure Event, No Termination Payment shall be made by MUNICIPAL CORPORATION to the Contractor\Agency but, the Contractor\Agency shall be entitled to receive and appropriate the proceeds of any amounts under insurance policies".
- (ii) If Termination is due to the occurrence of any event described under Clauses.
MUNICIPAL CORPORATION shall pay to the Contractor\Agency Termination Payment equal to 100 % of the Book Value of total assets as on the Date of Termination Notice less the capital grants provided by MUNICIPAL CORPORATION.
- (iii) If Termination is due to the occurrence of any event described under Clause, MUNICIPAL CORPORATION shall subject to the certification of PMC, pay to the Contractor\Agency, Termination payment equal to 100 % of the Book Value of total assets as on the Date of Termination Notice less the capital grants provided by MUNICIPAL CORPORATION, The Contractor\Agency would also be allowed to appropriate the amounts in the Post Closure Performance Account.

Provided MUNICIPAL CORPORATION shall be entitled to deduct from the Termination Payment any amount due and recoverable by MUNICIPAL CORPORATION from the Contractor\Agency as on the Termination Date.

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8.5 Liability for other losses, damages etc.

Save and except as expressly provided, neither Party hereto shall be liable in any manner whatsoever to the other Party in respect of any loss, damage, cost, expense, claims, demands and proceedings relating to or arising out of occurrence or existence of any Force Majeure Event.

8.6 Change in Law

- (a) Change in Law shall mean the occurrence or coming into force of any of the following, after the Appointed Date:
- (iv) The enactment of any new Indian law including laws related to environment:
 - (v) The repeal, modification or re-enactment of any existing Indian law
 - (vi) A change in the interpretation or application of any Indian law by a court of record.

Provided that Change in Law shall not include:

- (iii) Coming into effect, after the Appointed. Date, of any provision or statute which is already in place as of the Appointed Date,
 - (iv) Any new law or any change in the existing law under the active consideration of or in the contemplation of any government as of the Appointed Date which is a matter of public knowledge,
- (b) Subject to Change in Law resulting in Material Adverse Effect and subject to the Contractor\Agency taking necessary measures to mitigate the impact or likely impact of Change in Law on the Project, if as a direct consequence of a Change in Law, the Contractor\Agency is obliged to incur Additional Costs, and MUNICIPAL CORPORATION shall subsequently reimburse to the Contractor\Agency 100% of such Additional Costs.
- (c) Upon occurrence of a Change in Law, the Contractor\Agency may, notify MUNICIPAL CORPORATION and the Project Monitoring Consultant of the following:
- (i) The nature and the impact of Change in Law on the Project

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- (ii) In sufficient detail, the estimate of the Additional Cost likely to be incurred by the Contractor\Agency on account of Change in Law
 - (iii) The measures, which the Contractor\Agency has taken or proposes to take to mitigate the impact of Change in Law, including in particular, minimizing the Additional Cost
 - (iv) The relief sought by the Contractor\Agency
- (d) Upon receipt of the notice of Change in Law issued by the Contractor\Agency pursuant to preceding sub-clause, MUNICIPAL CORPORATION and the Contractor\Agency shall along with the Project Monitoring Consultant hold discussions and take all such steps as may be necessary including determination/certification by the Project Monitoring Consultant of the quantum of the Additional Cost to be borne and paid by MUNICIPAL CORPORATION.
- (e) MUNICIPAL CORPORATION shall within 30 days from the date of determination of quantum of Additional Cost, provide relief to the Contractor\Agency in the manner as mutually agreed upon by the Parties.

9. EVENTS OF DEFAULT AND TERMINATION

9.1 Events of Default

Event of Default shall mean either Contractor\Agency Event of Default or MUNICIPAL CORPORATION Event of Default or both as the context may admit or require.

(a) Contractor\Agency Event of Default

- a) MUNICIPAL CORPORATION at any time may terminate the contract by giving written notice to the bidder.
- If the Bidder/ Contractor\Agency becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to MUNICIPAL CORPORATION.
 - If the Bidder/ Contractor\Agency creates events of default for more than 6 months of any of the terms and conditions governing the contract or any clause of the contract including those of operation clauses of house-to-house collection, deployment of right type of vehicles and compactors, transportation of waste, etc.
 - If it is proved that the Contractor\Agency is intentionally and deliberately violating the provisions of the contract.
- b) MUNICIPAL CORPORATION requires that the Bidders under this tender observe the highest standards of ethics during the procurement and execution of such Contracts. In pursuance of this policy, MUNICIPAL CORPORATION defines for the purposes of this provision, the terms set forth as follows;
- "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of the public official. in the procurement process or in contract execution; and
 - "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or execution of the contract to the detriment of MUNICIPAL CORPORATION and includes collusive practice among Bidders (prior to or after Tender submission) designed to establish Contract Prices at artificial non- competitive levels and to deprive MUNICIPAL CORPORATION of the benefits of the free and open competition.

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- c) If the bidder indulges in Corrupt or Fraudulent Practices, it gets disqualified for tendering or MUNICIPAL CORPORATION may at any point of time terminate the contract by giving written notice to the Bidder, even after the work is started, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the MUNICIPAL CORPORATION
- d) If the order /contract is cancelled I terminated after commencing the work, on account of the reasons and / or failure of the Contractor\Agency to perform up to the standard as evaluated, Contractor\Agency shall;
- Hand over the entire infrastructure, sheds, cabins built, services provided by the service provider, in the premises given by MUNICIPAL CORPORATION to an authorized representative of MUNICIPAL CORPORATION; without any compensation.

MUNICIPAL CORPORATION may/shall assign the entire work and its set up to the next willing bidder or any other company or individual for operations of the services along with infrastructure, places and all vehicles and equipment acquired from the Contractor.

Any of the following events shall constitute an Event of Default by the Contractor\Agency ("Contractor\Agency Event of Default") unless such event has occurred as a result of one or more reasons set out in this agreement:

- (i) The Contractor\Agency has failed to adhere to the Construction Requirements and such failure, in the reasonable estimation of the MC, is likely to delay achievement of COD beyond 120 days of the Scheduled Project Completion Date;
- (ii) The Contractor\Agency has failed to achieve COD within 120 days of the Scheduled Project Completion Date because of the reasons attributed to failure in functioning of Contractor\Agency,
- (iii) At any time during the Concession Period, the Contractor\Agency fails to adhere to the Construction Requirements or O&M Requirements or O&M standards as stated in approved DPR and this agreement and has failed to remedy the same within 120 days;
- (iv) The Contractor\Agency is in Material Breach of any of its obligations under this Agreement and the same has not been remedied for more than 120 days;
- (v) A resolution for voluntary winding up has been passed by the shareholders of the Contractor\Agency;
- (vi) Any petition for winding up of the Contractor\Agency has been admitted and liquidator or provisional liquidator has been appointed or the Contractor\Agency has been ordered to be wound up by Court of competent jurisdiction, except for the purpose of amalgamation or reconstruction with the prior consent of MUNICIPAL CORPORATION, provided that, as part of such amalgamation or reconstruction and the amalgamated or reconstructed entity has unconditionally assumed all surviving obligations of the Contractor\Agency under this Agreement.
- (vii) The Contractor\Agency has abandoned the Project Facilities;
- (viii) The Contractor\Agency has unlawfully repudiated this Agreement or has otherwise expressed an intention not to be bound by this Agreement;
- (ix) The Contractor\Agency has suffered an attachment levied OR any of its assets which has caused or is likely to cause a Material Adverse Effect on the Project and such attachment has continued for a period exceeding 120 days.

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(b) MUNICIPAL CORPORATION Event of Default

- a) The Contractor\Agency may at any times Demand for termination of the contract if desired on default on the part of MUNICIPAL CORPORATION; such as non-payment of bills for more than 6 months and it does not get resolved by MUNICIPAL CORPORATION, by giving written communication to MUNICIPAL CORPORATION. the Contractor\Agency may hand over fixed assets created by them to MUNICIPAL CORPORATION.
- b) In case of termination /cancellation of the contract after commencing the work when MUNICIPAL CORPORATION asks to do so on account of MUNICIPAL CORPORATION's

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inability to continue, all the infrastructure, vehicles, equipment, containers brought by the Contractor\Agency may be taken over by the **MUNICIPAL CORPORATION**; if requested by the Contractor; at the mutually agreed rates.

Any of the following events shall constitute an event of default by **MUNICIPAL CORPORATION**

("MUNICIPAL CORPORATION Event of Default"), when not caused by a Contractor\Agency Event of Default or Force Majeure Event:

- (i) MUNICIPAL CORPORATION is in Material Breach of any of its obligations under this Agreement and has failed to rectify such breach within 90 (ninety) days of receipt of notice thereof issued by the Contractor\Agency;
- (ii) MUNICIPAL CORPORATION has unlawfully repudiated this Agreement or otherwise expressed its intention not to be bound by this Agreement;
- (iii) MUNICIPAL CORPORATION has unreasonably withheld or delayed grant of any approval or permission which the Contractor\Agency is obliged to seek under this Agreement, and thereby caused or likely to cause Material Adverse Effect;
- (iv) Any representation made or warranties given by the MUNICIPAL CORPORATION under this Agreement has been found to be false or misleading.

10.2 Risk and Cost work in case of Contractor\Agency event of Default

A committee comprising of Municipal Commissioner, all additional Municipal Commissioner, Chief Engineer (Civil), Chief Engineer (E&M), Chief Finance Officer, Environment Engineer & PMC representative shall be authorized to examine the level of default, necessity to engage other agency and initiate the proceed for awarding the work to another empanelled agency.

10.3 Termination due to Event of Default

(a) Termination for Contractor\Agency Event of Default

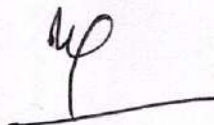
- (i) Without prejudice to any other right or remedy which MUNICIPAL CORPORATION may have in respect thereof under this Agreement, upon the occurrence of a Contractor\Agency Event of Default, MUNICIPAL CORPORATION shall, subject to the provisions of this Agreement, be entitled to terminate this Agreement in the manner as set out under this agreement.

Provided however that upon the occurrence of a Contractor\Agency Event of Default as specified under this agreement, MUNICIPAL CORPORATION may terminate this Agreement by issue of Termination Notice in the manner set out under this agreement

- (ii) If MUNICIPAL CORPORATION decides to terminate this Agreement pursuant to preceding clause, it shall in the first instance issue Preliminary Notice to the Contractor\Agency. Within thirty (30) days of receipt of the Preliminary Notice, the Contractor\Agency shall submit to MUNICIPAL CORPORATION in sufficient detail, the manner in which it proposes to cure the underlying Event of Default (the "Contractor\Agency's Proposal to Rectify"). In case of non-submission of the Contractor\Agency's Proposal to Rectify within the said period of 30 days, MUNICIPAL CORPORATION shall be entitled to terminate this Agreement by issuing Termination Notice, and to appropriate the Performance Security, if subsisting;
- (iii) If the Contractor Agency's Proposal to Rectify is submitted within the period stipulated therefore, the Contractor\Agency shall have further period of 60 days to remedy/ cure the underlying Event of Default. If, however the Contractor\Agency fails to remedy/cure the

underlying Event of Default within such further period allowed, MUNICIPAL CORPORATION shall be entitled to terminate this Agreement, by issue of Termination Notice and to appropriate the Performance Security, if subsisting

(b) Termination for MUNICIPAL CORPORATION Event of Default



- (i) Without prejudice to any other right or remedy which the Contractor\Agency may have in respect thereof under this Agreement, upon the occurrence of MUNICIPAL CORPORATION Event of Default, the Contractor\Agency shall be entitled to terminate this Agreement by issuing Termination Notice.
- (ii) If the Contractor\Agency decides to terminate this Agreement pursuant to preceding clause (i) it shall in the first instance issue Preliminary Notice to MUNICIPAL CORPORATION, ae Within 30 days of receipt of Preliminary Notice, MUNICIPAL CORPORATION shall forward to the Contractor\Agency its proposal to remedy/ cure the underlying Event of Default (the "MUNICIPAL CORPORATION Proposal to Rectify"). In case of non-submission of MUNICIPAL CORPORATION Proposal to rectify within the period stipulated therefore, Contractor\Agency shall be entitled to terminate this Agreement by issuing Termination Notice.
- (iii) If MUNICIPAL CORPORATION Proposal to Rectify is forwarded to the Contractor\Agency within the period Stipulated therefore, MUNICIPAL CORPORATION shall have further period of 60 days to remedy / cure the underlying Event of Default. if, however MUNICIPAL CORPORATION fails to remedy/ cure the underlying Event of Default within such further period allowed, the Contractor\Agency shall be entitled to terminate this Agreement by issuing Termination Notice.

(c) Termination Notice

If a Party is having become entitled to do so decide to terminate this Agreement pursuant to the preceding sub article (a) or (b), it shall issue Termination Notice setting out:

- (i) in sufficient detail the underlying Event of Default;
- (ii) the Termination Date which shall be a date occurring not earlier than 90 days from the date of Termination Notice;
- (iii) the estimated termination payment including the details of computation thereof; and,
- (iv) any other relevant information.

(d) Obligation of Parties

Following issue of Termination Notice by either Party, the Parties shall promptly take all such steps as may be necessary or required to ensure that;

- (i) until Termination the Parties shall, to the fullest extent possible, discharge their respective obligations so as to maintain the continued operation of the Project Facilities;
- (ii) the termination payment, if any, payable by MUNICIPAL CORPORATION in accordance with the following **sub - article (f)** is paid to the Contractor\Agency on the Termination Date; and
- (iii) the Project Facilities are handed back to MUNICIPAL CORPORATION by the Contractor\Agency on the Termination Date free from any Encumbrance along with any payment that may be due by the Contractor\Agency to MUNICIPAL CORPORATION.

(e) Withdrawal of Termination Notice

- Notwithstanding anything inconsistent contained in this Agreement, if the Party who has been served with the Termination Notice cures the underlying Event of Default to the a satisfaction of the other Party at any time before the Termination occurs, the Termination Notice shall be withdrawn by the Party which had issued the same
- Provided that the Party in breach shall compensate the other Party for any direct Costs/consequences occasioned by the Event of Default which caused the issue of Termination Notice.

(f) Termination Payments

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Upon Termination of this Agreement on account of MUNICIPAL CORPORATION Event of Default, the Contractor\Agency shall be entitled to withdraw the Performance Security, if subsisting, and receive from MUNICIPAL CORPORATION, termination payment equal to 120% of the Book Value of total assets of project as on Termination Date and amounts in the Past Closure Performance Account. Cost of valuator in such case shall be borne by MUNICIPAL CORPORATION

10.4 Rights of MUNICIPAL CORPORATION on Termination

(a) Upon Termination of this Agreement for any reason whatsoever, MUNICIPAL CORPORATION shall upon making the Termination Payment, if any, to the Contractor\Agency have the power and MUNICIPAL CORPORATION to:

- (i) enter upon and take possession and control of the Project Facilities i/c fixed asset, workshop etc. forthwith;
- (ii) prohibit the Contractor\Agency and any person claiming through or under the Contractor\Agency from entering upon/ dealing with the Project Facilities:

(b) Notwithstanding anything contained in this Agreement, MUNICIPAL CORPORATION shall not, as a consequence of Termination or otherwise, have any obligation whatsoever including but not limited to obligations as to compensation for loss of employment, continuance or regularisation of employment, absorption or re-employment on any ground, in relation to any person in the employment of or engaged by the Contractor\Agency in connection with the Project, and the hand back of the Project Facilities by the Contractor\Agency to MUNICIPAL CORPORATION shall all be free from any such obligation.

10.5 Accrued Rights of Parties

Notwithstanding anything to the contrary contained in this Agreement, Termination pursuant to any of the provisions of this Agreement shall be without prejudice to accrued rights of either Party including its right to claim and recover money damages and other rights and remedies which it may have in law or contract. The rights and obligations of either Party under this Agreement, including without limitation those relating to the Termination Payment, shall survive the Termination but only to the extent such survival is necessary for giving effect to such rights and obligations.

10. DISPUTE RESOLUTION

10.1 Amicable Resolution

- (a) Save where expressly stated to the contrary in this Agreement, any dispute, difference or controversy of whatever nature between the Parties, howsoever arising under, out of or in relation to this Agreement, including those arising with regard to acts, decision or opinion of the Project Monitoring Consultant (the "Dispute") shall in the first instance be attempted to be resolved amicably in accordance with the procedure set forth in **clause (b)** below.
- (b) Either Party may require such Dispute to be-referred to the MUNICIPAL COMMISSIONER (or the Person holding charge) and the Director of the Contractor\Agency for the time being, for amicable settlement. Upon such reference, the two shall meet at the earliest mutual convenience and in any event within 15 days of such reference to discuss and attempt to amicably resolve the Dispute. If the Dispute is not amicably settled within 15 (fifteen) days of such meeting between the two, either Party may refer the Dispute to arbitration in accordance with the provisions of **Clause 11.2** below.

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(a) **Procedure**

Subject to the provisions of Clause 11.1, any Dispute which is not resolved amicably shall be finally settled by binding arbitration under the Arbitration Act. The arbitration shall be by a panel of three arbitrators, one to be appointed by each Party and the third to be appointed by the two arbitrators appointed by the Parties. The Party requiring arbitration shall appoint an arbitrator in writing, inform the other Party about such appointment and call upon the other Party to appoint its arbitrator. If within 15 days of receipt of such intimation, the other Party fails to appoint its arbitrator, the Party seeking appointment of arbitrator may take further steps in accordance with Arbitration Act.

(b) **Place of Arbitration**

The place of arbitration shall be Madhubani

(c) **English Language**

The request for arbitration, the answer to the request, the terms of reference, any written Mead submissions, any orders and awards shall be in English/Hindi and, if oral hearings take place, English shall be the language to be used in the hearings.

(d) **Enforcement of Award**

The Parties agree that the decision or award resulting from arbitration shall be final and binding upon the Parties and shall be enforceable in accordance with the provisions of the Arbitration Act subject to the rights of the aggrieved parties to secure relief from any higher forum.

10.3 Performance during Dispute

Pending the submission of and/or decision on a Dispute and until the arbitral award is published, the Parties shall continue to perform their respective obligations under this Agreement without prejudice to a final adjustment in accordance with such award.

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APPENDIX

APPENDIX-1: FORMAT FOR ACKNOWLEDGEMENT OF RFP DOCUMENT

(To be submitted on the Letter-Head of the Bidder)

DATE: DD.MM.YYYY

To
Municipal Corporation

REFERENCE: RFP FOR Door-to-door collection and segregation of municipal solid waste (MSW) from each residential and commercial establishment, and transportation to the transfer stations/processing site in Municipal Corporation, for Three years.

Dear Sir/Madam,

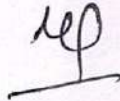
The undersigned hereby acknowledges and confirms receipt of the Request for Proposal (RFP) Document for the captioned project from the Municipal Corporation and conveys its intention to submit a Bid for the said Project.

Name of the Bidder

Signature of the Authorised Person

Name of the Authorised Person

NOTE:

A handwritten signature in black ink, consisting of stylized initials 'RP' above a horizontal line.

APPENDIX-II: FORMAT FOR COVERING LETTER-CUM-PROJECT UNDERSTANDING

(To be submitted on the Letter-Head of the Bidder)

DATE: DD.MM.YYYY

To
Municipal Corporation

REFERENCE: RFP FOR Door-to-door collection and segregation of municipal solid waste (MSW) from each residential and commercial establishment, and transportation to the transfer stations/processing site in Municipal Corporation, for Three years.

Dear Sir/Madam,

I/We have read and understood the Request for Proposal (RFP) Document in respect of the project captioned above. I/We am/are hereby submitting our Bid online for the captioned project. I/We confirm that our Bid is valid for a period of One Hundred Eighty (180) Days from the Bid due Date. We hereby agree and undertake as under:

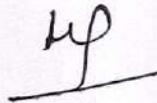
Notwithstanding any Qualifications or Conditions, whether implied or otherwise, contained in our Bid, we hereby represent and confirm that our Bid is qualified and unconditional in all respects and we agree to the terms of the Draft Contract Agreement, a draft of which also forms a part of the RFP Document provided to us.

Dated this _____ Day of _____ of Year _____.

Name of the Bidder

Signature of the Authorised Personal

Name of the Authorised Personal



APPENDIX-III: FORMAT FOR POWER OF ATTORNEY (POA) FOR SIGNING APPLICATION

(To be executed on the Stamp Paper of INR 100/-)

DATE: DD.MM.YYYY

Know all men by these presents, We (Name of the Firm and Address of the Registered Office) do hereby irrevocably constitute, nominate, appoint and authorise Mr./Ms. (Name) son/daughter/wife of (Name) and presently residing at (Address), who is presently employed with us/and holding the position of (Designation), as our true and lawful attorney (hereinafter referred to as the "Attorney") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our application for Pre-Qualification and submission of our Bid for **RFP FOR SELECTION OF AGENCY FOR DOOR TO DOOR COLLECTION, SEGREGATION OF MUNICIPAL SOLID WASTE (MSW) FROM EACH ESTABLISHMENT & TRANSPORTATION TO THE TRANSFER STATIONS/PROCESSING SITE** by the Municipal Corporation.

Including but not limited to signing and submission of all applications, bids and other documents and writings, participate in Pre-Applications and other conferences and providing information/responses to the municipal corporation, representing us in all matters before the municipal corporation, signing and execution of all contracts including the Contract Agreement and undertakings consequent to acceptance of our bid, and generally dealing with the municipal corporation in all matters in connection with or relating to or arising out of our bid for the said Project and/or upon award thereof to us and/or till the entering into of the Contract Agreement with the municipal corporation.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS
POWER OF ATTORNEY ON THIS _____ Day of _____ of Year _____.

The undersigned hereby acknowledges and confirms receipt of the Request for Proposal (RFP) Document for the captioned project from the municipal corporation and conveys its intention to submit a Bid for the said Project.

For

Signature, Name, Designation &

Address

Witnesses:

1.

2.

Accepted:

Signature, Name, Title & Address of Attorney
(NOTORISED)

NOTE:

1. The mode of execution of the Power of Attorney (POA) should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.



Wherever required, the Bidder should submit for verification the extract of the charter documents such as a board or shareholder's resolution/power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.

For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by bidders from countries that have signed the Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Apostle certificate.

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APPENDIX-IV: FORMAT FOR DETAILS OF TECHNICAL STAFF

(To be submitted on the Letter-Head of the Bidder)

DATE: DD.MM.YYYY

S.No.	Name of Staff	Qualification	Institute	Experience with Name of Organisation

MP

APPENDIX-V: FORMAT FOR UNDERTAKING FOR NON-BLACKLISTING OF BIDDER

(To be submitted on the Letter-Head of the Bidder)

DATE: DD.MM.YYYY

To
Municipal Corporation

REFERENCE: RFP FOR Door-to-door collection and segregation of municipal solid waste (MSW) from each residential and commercial establishment, and transportation to the transfer stations/processing site in Municipal Corporation, for Four years.

Dear Sir/Madam,

I/We (Name of the Firm and Address of the Registered Office) undertake and certify that we have not been Blacklisted/Debarred by MUNICIPAL CORPORATION/ MUNICIPAL CORPORATION PHED, BIHAR and any State/Central Govt. or their undertakings and autonomous bodies; effective as on bid submission date.

Company Seal/Stamp, Sign

Name of the Bidder's Authorised Person

Designation of the Bidder's
Authorised Person

Address of the Bidder's Authorised Person

Attested By
(NOTORISED)

HO

APPENDIX-VI: FORMAT FOR BANK GUARANTEE FOR BID SECURITY

B.G No.

Dated:

To,

The Municipal Commissioner

In consideration of you, the.....Municipal Corporation, having its office at.....having agreed to receive the Proposal of Contractor/Agency(Name).....and having our registered office at(herein after referred to as the "Bidder" which expression shall unless it be repugnant to the subject or context thereof include its/their executors administrators, successors and assigns), for the **"DOOR TO DOOR COLLECTION, SEGREGATION OF MUNICIPAL SOLID WASTE (MSW) FROM EACH RESIDENTIAL AND COMMERCIAL ESTABLISHMENT & TRANSPORTATION TO THE /TRANSFER STATIONS/PROCESSING SITE IN**

.....**MUNICIPAL CORPORATION FOR FOUR YEARS**". (here in after referred to as "the Project"). Pursuant to the REP document dated..... issued in respect of the Project and other related documents (hereinafter collectively referred to as "Bidding Documents"), we [Name of the Bank] having our registered office at and one of its branches at (herein after referred to as the "Bank"), at the request of the Bidder, do hereby in terms of the RIP Document, irrevocably, unconditionally and without reservation guarantee the due and faithful fulfilment and compliance of the terms and conditions of the Bidding Documents (including the REP Document) by the said Bidder and unconditionally and irrevocably undertake to pay forthwith to the Corporation an amount of Rs...../(..... Rupees Only) as bid security (herein referred to as the "Bid Security") as our primary obligation without any demur, reservation, recourse, contest or protest and without reference to the Bidder if the Bidder shall fail to fulfil or comply with all or any of the terms and conditions contained in the said Bidding Documents.

1. Any such written demand made by the Corporation stating that the Bidder is in default of the due and faithful fulfilment and compliance with the terms and conditions contained in the Bidding Documents shall be final, conclusive and binding on the Bank.
2. We, the Bank, do hereby unconditionally undertake to pay the amounts due and payable under this Guarantee without any demur, reservation, recourse, contest or protest and without any reference to the Bidder or any other person and irrespective of whether the claim of the Corporation is disputed by the Bidder or not merely on the first demand from the Corporation stating that the amount claimed is due to the Corporation by reason of failure of the Bidder to fulfil and comply with the terms and conditions contained in the Bidding Documents including failure of the said Bidder to keep its Bid open during the Bid validity period as set forth in the said Bidding Documents for any reason whatsoever. Any such demand made on the Bank shall be conclusive as regards amount due and payable by the Bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs...../ (.....Rupees only)
3. This Guarantee shall be irrevocable and remain in full force for a period of 180 days from the Proposal Due Date inclusive of a claim period of 30 (Thirty) days or Till Dateor for such extended period as may be mutually agreed between the Corporation and the Bidder, and agreed to by the Bank, and shall continue to be enforceable till all amounts under this Guarantee have been paid

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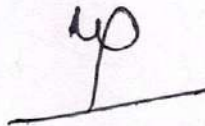
4. We, the Bank, further agree that the Corporation shall be the sole judge to decide as to whether the Bidder is in default of due and faithful fulfilment and compliance with the terms and conditions contained in the Bidding Documents including, inter alia the failure of the Bidder to keep its Proposal open during the Proposal validity period set forth in the said Bidding Documents, and the decision of the Corporation that the Bidder is in default as aforesaid shall be final and binding on us.
5. The Guarantee shall not be affected by any change in the constitution or winding up of the Bidder or the Bank or any absorption, merger or amalgamation of the Bidder or the Bank with any other person.
6. Any notice by way of request, demand or otherwise hereunder shall be sufficiently given or made if addressed to the Bank and sent by courier or by registered mail to the Bank at the address set forth herein.
7. We undertake to make the payment on receipt of your notice of claim on us addressed to [**name of Bank along with branch address**] and delivered at our above branch who shall be deemed to have been duly authorized to receive the said notice of claim.
8. It shall not be necessary for the Corporation to proceed against the said Bidder before proceeding against the Bank and the guarantee herein contained shall be enforceable against the Bank, notwithstanding any other security which the Corporation may have obtained from the said Bidder or any other person and which shall, at the time when proceedings are taken against the Bank hereunder, be outstanding or unrealized.
9. We, the Bank, further undertake not to revoke this Guarantee during its currency except with the previous express consent of the Corporation in writing.
10. The Bank declares that it has power to issue this Guarantee and discharge the obligations contemplated herein, the undersigned is duly authorised and has full power to execute this Guarantee for and on behalf of the Bank.

Signed and delivered by Bank

By the hand of Mr./Ms....., itsand authorised official.

(Signature of the Authorised Signatory)

(Official Seal)



APPENDIX-VII: FORMAT FOR PERFORMANCE BANK GUARANTEE

To,
The Municipal Commissioner

Whereas (here in after called "The Contractor\Agency") having registered office at
....., has undertaken, in pursuance of **Letter of Award (LOA)**
No:..... Dated; to execute the Work of 'DOOR TO DOOR COLLECTION,
SEGREGATION OF MUNICIPAL SOLID WASTE (MSW) FROM EACH RESIDENTIAL. AND COMMERCIAL
ESTABLISHMENT & TRANSPORTATION TO THE /TRANSFER STATIONS/PROCESSING SITE
FOR..... MUNICIPAL CORPORATION FOR FOUR YEARS" (hereinafter called " The
Concession Agreement").

And Whereas it has been stipulated by you in the said Concession Agreement that the Contractor\Agency shall furnish you with a Bank Guarantee by a scheduled commercial bank for the sum specified therein as security for compliance with its obligations in accordance with the concession agreement.

And Whereas We ,(Name of Bank) having our registered office..... and having its branch at....., have agreed to give the Contractor\Agency such a Bank Guarantee; Now therefore, we hereby affirm that we are the guarantors and responsible to you on behalf of the Contractor\Agency, upto a total of **Five Percent** i.e, Rs/- (.....Rupees Only), and we undertake to pay you, upon your first written demand declaring the Contractor\Agency to be in default under the Concession Agreement and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein. We hereby waive the necessity of your demanding the said debt from Contractor\Agency the before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the Concession Agreement to be performed there under or of any of the Concession documents which may be made between you and the Contractor\Agency shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification. This guarantee shall be valid until the
(till date)

NOT WITHSTANDING ANYTHING CONTAINED HEREIN ABOVE

- a) The Bank's liability under this Bank Guarantee shall not exceed Rs.....(Rupees..... Only),
- b) This Bank Guarantee shall be valid up to (Till Date)
- c) The Bank is liable to pay the guaranteed amount or part thereof under this Bank Guarantee only and only if the beneficiary serves upon the Bank a written claim or demand on or before(till date).
- d) As per Exception 3 to Section 28 of Indian Contract Act, 1872, the statutory claim period will be up to one year of the Validity period of this Bank Guarantee. In other words, the Bank issuing such guarantee will not be liable under such guarantee to the beneficiary after the expiry of one year from the validity period, regardless of period of limitation under the Limitation Act, 1963."

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ANNEXURE-1: FORMAT FOR DETAILS OF BIDDER

DATE : DD. MM . YYYY

A	General Information:	
1.	Name	
2.	State & Country of Incorporation:	
3.	Address of the corporate headquarters and its branch office(s), if any, in India:	
4.	Date of Incorporation and/ or commencement of Business:	
B	Brief description of the Bidder including details of its main lines of Business and proposed Role and Responsibilities in this Project	
C	Details of individual(s) who will serve as a Point of Contact/Communication for the Municipal Corporation:	
1.	Name	
2.	Designation	
3.	Correspondence Address	
4.	Contact No.	
5.	E-mail	
D	Particulars of the Authorised Signatory of the Bidder:	
1.	Name	
2.	Designation	
3.	Correspondence Address	
4.	Contact No.	
5.	E-mail	

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ANNEXURE – 2: FORMAT FOR DETAILS OF ELIGIBLE PROJECTS

DATE: DD . MM . YYYY

1.	Name of the Project	
2.	Nature of the Project	
3.	Entity for which the project was Constructed/Developed	
4.	Location of the Project	
5.	Project Capacity or Project Cost (INR)	
6.	Date of Commencement of Project/Contract	
7.	Date of successful Commissioning	
8.	Equity Shareholding ('with period during which equity was held)	
9.	Whether credit is being taken for the eligible Experience of an Associate	(Yes/ No)

HP

ANNEXURE-3: FORMAT FOR STATEMENT OF LEGAL CAPACITY

(To be submitted on the Letter-/lead of the Bidder)

DATE: DD.MM.YYYY

To

The Municipal Commissioner

REFERENCE: RFP FOR Door-to-door collection and segregation of municipal solid waste

(MSW) from each residential and commercial establishment, and transportation to the /transfer stations/processing site in Municipal Corporation, Madhubani for Four years

Dear Sir/Madam,

I/We hereby confirm that I/We (Name of the Firm and Address of the Registered Office) (constitution of which has been described in the application) satisfy the terms and conditions laid out in the RFP Document

I/We (Name of the Firm) have agreed that (Name of the individual) will act as our representative on its behalf and has been duly authorized to submit this RFP. Further, the Authorised Signatory is vested with requisite powers to furnish such Letter and Authenticate the same.

Thanking You

Bidder(s) Seal/Stamp, Sign

Name of the Bidder's Authorised Personal

Designation of the Bidder's Authorised Personal

Address of the Bidder's Authorised Personal

For and on behalf of

LP
I

**ANNEXURE-4: FORMAT FOR DOOR TO DOOR C&T AND ROAD SWEEPING FINANCIAL BID
(SUBMITTED ONLINE ONLY) Physical submission will lead to disqualify**

DATE: DD.MM.YYYY

To

The Municipal Commissioner

REF: Door-to-door Collection and Segregation of Municipal Solid Waste (MSW) from each Residential and Commercial Establishment, and Transportation to the /transfer stations/processing site in Municipal Corporation, Madhubani for Four years.

Dear Sir/Madam,

I/We are pleased to submit our Financial Bid for Door-to-door collection and segregation of municipal solid waste (MSW) from each residential and commercial establishment, and transportation to the /transfer stations/processing site and Road Sweeping in Municipal Corporation, Madhubani for Four years

A

S. No.	Property Description	No. of Establishments	Quoted Rates per Month
(A)	RESIDENTIAL		
1.	BPL Houses, notified Slums, Main Basties & EWS Flats		
2.	Residential House including Hostels upto 100 Sqm. (Plot area)		
3.	Residential Houses including Hostels more than 100 Sqm. but upto 200 Sqm, (Plot area)		
4.	Residential Houses including Hostels more than 200 & gm but upto 400 Sqm. (Plot area)		
5.	Residential Houses including Hostels more than 400 Sqm. (Plot area)		
6.	Apartments, Flats having covered area upto 2000 SO. (except EWS Mats)		
7.	Apartments, Flats having covered area more than 2000 Sqft.		
(B)	COMMERCIAL		

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1.	Individual Shops and Private Offices upto 200 Sqft. covered area including Service Stations, Restaurants, Dhabas, Fishery Shops, Shops in Grain Market and Vegetable Market, etc.		
2.	Individual Shops and Private Offices more than 200 Sqft. covered area including Service Stations,		
3.	Restaurants, Dhabas, Fishery Shops, Shops in Grain Market etc.		
4.	Nursing Homes, Clinics/ Hospitals/ Aushadhalaya without indoor facilities, Hospitals upto 50 Beds		
5.	Hospitals more than 50 Beds but upto 100 Beds		
6.	Hospitals more than 100 Beds		
7.	Shopping Complexes including Malls, Cinema Halls and Notified Slaughter Houses		
8.	Factories, Mills		
9.	Banks, Auditoriums, Guest Houses, Hostels, Hotels (upto 10 Rooms)		
10.	Marriage Halls, Banquet Halls, Hostels, Hotels (more than 10 Rooms), Commercial Party Lawns		
11.	Clubs with restaurants facilities having membership upto 500 Nos.		
12.	Clubs with restaurants facilities having membership more than 500 Nos.		
13.	Petrol Pumps, Gas Stations		
14.	Central and State Govt. and Public Sector Offices/Complexes, Welfare Organizations/Societies		
15.	All educational Institutes of any type having Plot area upto 2 Acres		
16.	All educational institutes of any type having Plot area more than 2 Acres but upto 5 Acres		

17.	All educational institutes of any type having plot area more than 5 Acres		
18.	All Dharmshalas, Religious Places, Govt. Sports Clubs		
(C)	Road Sweeping		
	MECHANISED AND MANUAL SWEEPING OF ROADS Cost		
	Total Cost (A+B+C)		

Total Cost for 1Month (in Figures):

Total Cost for One Moth (in Words):

In witness thereof, I/we (Name of the Firm and Address of the Registered Office) submit this establishment wise Financial Bid under and in accordance with the terms & conditions of the RFP Document.

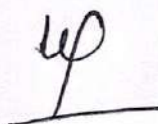
Bidder(s) Seal/Stamp, Sign

Name of the Bidder's Authorised Personal

Designation of the Bidder's Authorised Personal

Address of the Bidder's Authorised Personal

Dated this _____ Day of _____ of Year _____ at _____



Note - The Price quoted by the Bidder(s) under Financial Bid will be exclusive of GST.

HP

ANNEXURE – 5 : FORMAT FOR PROJECT INFORMATION MEMORANDUM-1 (For Reference Only Filled By ULB)

DATE:DD . MM . YYYY

C&T VEHICLE(S) DEPLOYMENT & MANPOWER DEPLOYMENT SHEET			
Particulars	Unit	Quantity	Manpower per Vehicle
Number of individuals per Household	Nos.	5	
Per Capita Waste Generation	gm	350	
Waste Generation Per Household	gm	1750	
Density	m ³	0.60	
Volume per Household	m ³	0.004	
Primary Collection			
E-Rickshaws			1
Capacity of each e-rickshaws	Kg	300	
Number of households which can be covered	Nos.	1000	
Light Commercial Vehicles With hydraulic tipping containers			2
Capacity of each vehicle	Kg	650	
Number of Households covered by each vehicle	Nos.	1200	
Manpower Per LCV (1Driver, 1 Labor)	Nos.	2.00	
Providing Secondary Collection Points In Consultation with Municipal Corporation			
Capacity of each Bin	m ³	1.1M3	
Number of Bins considering 15% of total estimated Waste Generated being sent to Secondary Collection Points by Refuse Compactor			
Total capacity of Secondary Collection Vehicles			
Capacity of Compactors required at Mechanical Transfer Station (Refuse Compactor \Portable Compactor			2
Volume of waste to be collected using 14 cum compactors			
Capacity of Each compactor	MT	10	
Number of Compactors Required upto 30TPD (if waste is more than 30 TPD then numbers to be Increased accordingly		1	

Note:

1. Details w.r.t No. of Households, Waste Generation etc. are based on CPHEEO Manual.

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ANNEXURE – 6: FORMAT FOR MONTHLY INVOICE (AFTER LOA/AGREEMENT)

Name of Firm _____
 Adress of Firm _____
 Contact Details _____

DATE: DD.MM.YYYY
 INVOICE No.:

Bill To :

Municipal Corporation

SUBJECT : Door-to-Door collection and segregation of municipal solid waste (MSW) from each residential and commercial establishment , and transportation to the transfer stations/processing site in Municipal Corporation, Madhubani for Four years

Description	Details
Weighbridge; Location & Capacity	
Number of Establishment from where Fresh-Waste is collected and transported to the Processing Site/Transfer Station	

MONTHLY PAYMENT FOR Door-To-Door collection and segregation of municipal solid waste (MSW) from each residential and commercial establishment , and transportation to the / transfer stations/processing site in Municipal Corporation, Madhubani

S.No.	Property Description	Service given to Number . of Establishments	Payment (INR per Month)	Total Amount (INR per Month)
(a)	RESIDENTIAL			
1.	BPL Houses, Notified Slums, Main Basties & EWS Flats			
2.	Residential House including Hostels upto 100 Sqm. (Plot area)			
3.	Residential House including Hostels more than 100 Sqm. But upto 200 Sqm. (Plot area)			
4.	Residential House including Hostels more than 200 Sqm. But upto 400 Sqm. (Plot area)			
5.	Residential House including Hostels more than 400 Sqm. (Plot area)			
6.	Apartments, Flats having covered area upto 2000 Sqft. (except EWS Flats)			

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7	Apartments, Flats having covered area more than 2000 Sqft.			
(b)	COMMERCIAL			
1	Individual Shops and Private Offices upto 200 Sqft. covered area including Service Stations, Restaurants, Dhabas, Fishery Shops, Shops in Grain Market and Vegetable Market, etc.			
2	Individual Shops and Private Offices upto 200 Sqft. covered area including Service Stations, Restaurants, Dhabas, Fishery Shops, Shops in Grain Market and Vegetable Market, etc..			
3	Nursing Homes, Clinics/ Hospitals/ Aushadhalaya without indoor facilities, Hospitals upto 50 Beds			
4	Hospitals more than 50 Beds but upto 100 Beds			
5	Hospitals more than 100 Beds			
6	Shopping Complexes including Malls, Cinema Halls and Notified Slaughter Houses			
7	Factories, Mills			
8	Banks, Auditoriums, Guest Houses, Hostels, Hotels (upto 10 Rooms)			
9	Marriage Halls, Banquet Halls, Hostels, Hotels (more than 10 Rooms), Commercial Party Lawns			
10	Clubs with restaurants facilities having membership upto 500 Nos.			
11	Clubs with restaurants facilities having membership more than 500 Nos.			
12	Petrol Pumps, Gas Stations			
13	Central and State Govt. and Public Sector Offices/Complexes,Welfare Organizations/Societies			
14	All educational Institutes of any type having Plot area upto 2 Acres			
15	All educational institutes of any type having Plot area more than 2 Acres but upto 5 Acres			
16	All educational institutes Of any type having plot area more than 5 Acres			
17	All Dharmshalas, Religious Places, Govt. Sports Clubs, Stadium etc.			
C	Road Sweeping			

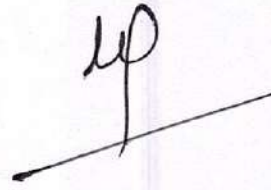
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MECHANIZED AND MANUAL SWEEPING OF ROADS Cost			
Total Cost (A+B+C)			

NOTE:

The Contractor/Agency shall submit the following documents along with the bill:

- i. Along with the monthly invoice , the agency must submit the manpower details, EPF and ESIC challans
- ii. Copy of weigh slip of each vehicle from the Processing & Disposal Site



- iii. RFID Tags Scanned Data. in absence of RFID Tags Data; GPS Data/Details shall be submitted.
- iv. Data-wise quantity of waste collected \ Household Coverage Data
- v. IEC activities undertaken.
- vi. MIS of disposal of each and every complaint received on call centre or any other means.

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ANNEXURE-7: FORMAT FOR MUNICIPAL SOLID WASTE (MSW) COLLECTION VEHICLES GAP ANALYSIS(AFTER LOA/AGREEMENT)

(To be filled by the Contractor/Agency)

Date:DD.MM.YYYY

Colony/Sector/Township/GHS etc. wise Solid Waste Collection Vehicles Gap Analysis												
S.No	No. of Residential Households	No. of Commercial	No. of Industries	Total	GAP Analysis of primary Collection Vehicles				Spare Vehicles (10% of Total Required)			
					Required		Existing		Motorized /LCV	Rickshaws	Motorized /LCV	Rickshaws
					Motorized /LCV	Rickshaws	Motorized /LCV	Rickshaws				

NOTE :

1. Rickshaw and Motorized Vehicles should be calculated as per the Density in each Colony/Sector/Township/GHS etc. Capacity (in Kg) of each vehicle should also be defined while calculating the requirement of the vehicles.
2. The Percentage quantity of Waste to be transported by LCVs/Motorised vehicles, Rickshaws and other vehicles can be decided by the Contractor / Agency based on the local conditions.

Estimates for Deployment of Vehicles for Primary Collection (as per CPHEEO Manual)	
Vehicle for Primary Collection	Number of households to be covered in different areas
Tricycle	Congested Area : 250
	Medium Density Area: 200
	Scattered Area: 125
	Hill Area: 85-90

	Area:	350
E-Rickshaw		
Light Commercial Vehicles (LCV) Having 650 to 700 Kg Capacity		700
LCV with more than 700 Kg – 1500 Kg Capacity and above		700 to 1000

a) Pushcarts: Total assigned House/(Households as per Density above)

b) Tricycle: Total assigned House /(Households as per Density above)

c) LCV/ Motorized Vehicle Required For One Trip = Total or assigned House/(Households as per above Density)

Data/Details Provided By (authorized Personal of Agency)

Name : _____

Designation: _____

Date: _____

Checked By (authorized Personnel of MC)

Name: _____

Designation: _____

Date: _____

Verified By (authorized Personnel of MC)

Name : _____

Designation: _____

Date : _____

40

Approved By (authorized Personnel of MC)

Name : _____

Designation : _____

Date : _____

ANNEXURE – 8 : FORMAT FOR SOLID WASTE COLLECTION VEHICLES (AFTER LOA/AGREEMENT)

(To be filled by the contractor/Agency)

DATE: DD.MM.YYYY

Name of Colony/Sector/Townships/GHS etc. _____

Colony/Sector/Townships/GHS etc. wise Solid Waste Collection Vehicles							
Sr No.	Vehicle Type	Capacity of Vehicle	Registered Number	Year and Model of Vehicle	Does it have compartments to store Segregated Waste ? (Y/N)	GPS ID	QR/RFID Code Scanner available ? (Y/N)

Colony/Sector/Townships/GHS etc. wise Solid Waste Collection Vehicles-Spare							
Sr No.	Vehicle Type	Capacity of Vehicle	Registered Number	Year and Model of Vehicle	Does it have compartments to store Segregated Waste ? (Y/N)	GPS ID	QR/RFID Code Scanner available ? (Y/N)

Data/Detail Provided By (authorized Personnel of Agency)

Name: _____
 Designation: _____
 Date: _____

Checked By (authorised Personnel of MC)

Name: _____
 Designation: _____
 Date: _____

Verified By (authorized Personnel of MC)

Name: _____
 Designation: _____
 Date: _____

Approved By (AUTHORISED Personnel of MC)

Name: _____
 Designation: _____
 Date: _____

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Annexure-9: Format for Solid Waste Collection Vehicles

(To be filled by the Contractor/Agency)

DATE: DD.MM.YYYY

Name of Colony/Sector/Townships/GHS etc. _____

Colony/Sector/Townships/GHS etc. wise Solid Waste Collection Vehicles

S.No.	Name of Colony/Sector/Townships/GHS etc.	No. of Motorised Vehicles /LCV	Staff Required		No. of Rikshaws	Staff Required	
			Driver	Helper/Labour		Driver	Helper/Labour

Vehicle for Primary Collection	Staff Required
Push Carts:	1 Person per Pushcart
Tricycle:	1 Person per Tricycle
Light Commercial Vehicles (LCV) having 500 to 700 Kg Capacity	1 Driver and 1 Labour per LCV (Number of Labours may be increased as per requirement)
LCV with more than 700 Kg Capacity:	1 Driver and 1 Labour per LCV (Number of Labours may be in increased as per requirement)

Data/Detail Provided By (authorized Personnel of Agency)

Name: _____
 Designation : _____
 Date : _____

Checked By (authorized Personnel of MC)

Name: _____
 Designation : _____
 Date : _____

Verified By (authorized Personnel of MC)

Name: _____
 Designation : _____
 Date : _____

Handwritten signature

Approved By (authorized Personnel of MC)

Name: _____
 Designation : _____
 Date : _____

ANNEXURE-10: FORMAT FOR ROUTE PLAN FOR DOOR TO DOOR WASTE COLLECTION(AFTER LOA/AGREEMENT)

(To be filled by the Contractor/Agency)

DATE: DD.MM.YYYY

Name of Colony/Sector/Townships/GHS etc. _____

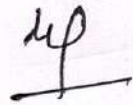
Vehicle Maintenance/Service/Servicing Schedule														
S. No.	Service Area/Street/Colony/Apartment	Vehicle Type	Vehicle Registered Number	Name of In-Charge Driver	GPS ID	Trip-1			Trip-2			Waste Transported to (Name of transfer station)	Estimated Waste Collected Per Day	
						Start Point	End Point	No. of Households to be covered	Service Timings	Start Point	End Point			No. of Households to be covered

Data/Detail Provided By (authorized Personnel of Agency)

Name: _____
 Designation : _____
 Date : _____

Verified By (authorized Personnel of MC)

Name: _____
 Designation : _____
 Date : _____



Checked By (authorized Personnel of MC)

Name: _____
 Designation : _____
 Date : _____

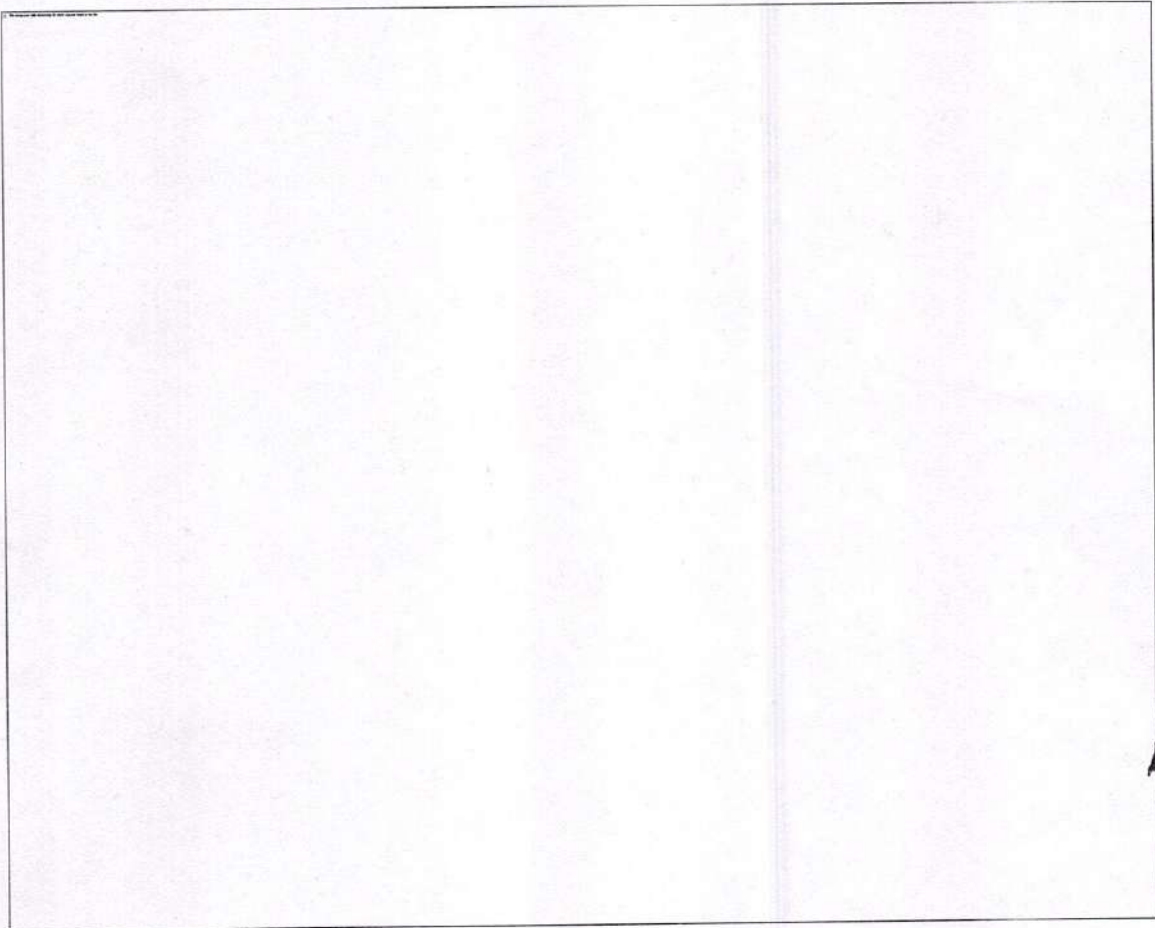
Approved By (authorized Personnel of MC)

Name: _____
 Designation : _____
 Date : _____

ANNEXURE -11: EXAMPLE ROUTE MAP

DATE: DD.MM .YYYY

Colony/Sector/Townships/GHS etc. wise Solid Waste Collection Route Map: Example



Suggested Specifications of Ward-wise Maps:

1. The Map should be prepared using GIS, QGIS or any other Spatial Mapping Software.
2. Map should be at least of A3 Size for each ward(s).
3. Map should be clearly marked with Ward Boundary , Land Cover , Location of Bins/Dhalao , Open Dumping Sites etc. with appropriate Legends and Scale.
4. All the Trips Routes should be marked with Starting Point, End point ,Direction guides in separate colors.
5. Maps should be readable with marked Primary , Secondary and Internal Roads, specific Areas ,major Landmarks, Parks etc.

A handwritten signature or set of initials, possibly '4p', written in black ink.

ANNEXURE-13: FORMAT FOR IEC ACTIVITIES & THEIR COMPLIANCE(AFTER LOA/AGREEMENT)
 (To be filled by the Contractor/Agency)

Based on requirements specified in RFP, the Contractor/Agency can use Format given below for planning IEC Activities. All Activities should be planned in consultation with Respective Municipal Corporation.

Name of _____
 Municipal Corporation _____
 Year Month _____

DATE: DD.MM.YYYY

S.No,	Activities	Minimum Frequency	Schedule for IEC Activities & their Compliance																	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
1.	Mandatory Advertisement in the News Paper	atleast once in every quarter																		
2.	Training Programs for RWAs	atleast once in every quarter																		
3.	Distribution of the pamphlets	atleast 2500-3000 Pamphlets per month																		
4.	Hoardings in the City	atleast one in Radius of 5 Km.																		
5.	Glow Sign Boards	atleast one in Radius of 5 Km.																		
6.	Street Plays	Once in a Month																		
7.	Awareness Campaigns at School	Quarterly in association with Master Trainers																		
8.	Waste Segregation Campaign at Society Level	Once in a Month in ward/respective area in association with Ward Committee																		
9.	Jingles/Slogans on various SWM Topics	To be played on Waste Collection Vehicle all the Time																		
10.	Any other IEC Activities																			

Data/Detail Provided By (authorized Personnel of Agency)
 Name: _____
 Designation : _____

Checked By (authorized Personnel of MC)
 Name: _____
 Designation : _____

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Date : _____

Verified By (authorized Personnel of MC)

Name: _____

Designation : _____

Date : _____

Date : _____

Approved By (authorized Personnel of MC)

Name: _____

Designation : _____

Date: _____

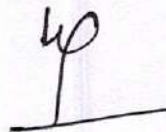
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Minimum Technical Specification of Project Assets

1.1 Technical Specifications of E-rickshaw After LOA

S.No	Description	Specification
	Type of Electric cart	Fully Electric, battery automated hopper covering mechanism from top having two compartments for carrying wet and dry waste separately with a hooter, compatible with mobile/ fixed transfer station and one black box attached on the backside of vehicle for DHW
	Chassis Construction	MS frame with 2mm thickness cross-members connecting them fabricated using MS square pipes of suitable size with anticorrosive paint.
	Dimensions of cart	Overall length : 2760 mm Overall width : 1120 mm(5%tolerance for both)
	Maximum Speed	25 kmph
	Motor	1250-1500 W/48V BLDC motor
	Transmission	Single central axis differential five both forward and reverse direction
	Ground Clearance	160 mm to 170 mm
	Rear cargo Box	1) Not less than 1400 mm* 1000 mm* 450 mm (L*B*H) 2) overall dimensions should be fabricated using MS sheet, MS square pipes of suitable thickness and size 3) Rear door near foldable single door arrangement 4) Side door foldable single door arrangement
	Pay load	Not Less than 500 kgs
	Running capacity	Not less than 60 km per charge
	Speed of the vehicle	Less than 25 km/hr
	Grade ability (climbing ability)	7 degree (maximum)
	Brake system	Double rear drum pedal type
	Wheel and tyres	Front: 90/90 * R12-01 Nos and Back 14.5/70/12- 2 Nos and one spare tyre
	Battery capacity	Lithium Ion Battery pack (Cell Model 18650) 48 V

'The standards mentioned for equipment is the minimum requirement. Any higher standards are acceptable with the permission of the MUNICIPAL CORPORATION and IE



		and 40 All make : subha
16	Seating capacity	Cushioned seat to accommodate 2 person
17	Cabin	Weather Proof complete metal enclosed cabin with wind screen glass for driver protection with necessary frame structure for protection from heat
18	Dry weight	Not less than 300 kgs
19	Suspension	Front: Telescopic 29MM heavy duty hydraulic shocker Rear: Leaf spring with hydraulic shocker
20	Charger	Axiom Brand India make fast Charger 6 Amp
21	Accessories	GSM SIM Tracker with 1 year warranty Head lamp, front and rear indicators Fire extinguishers First Aid Kit

- Fitness/compliance test as per the Ministry of Road transport and highways GSR No. 709 (E) dated 8 October 2014
- Compliance certificate for the following test to be carried out as per the safety standards for E-Rickshaw/E-carts as per the Ministry of Road Transport and Highways notification No. S.O. 2590 (E) dated 8 October 2014
- The Contractor\Agency is required to deploy licensed operators for operating e-rickshaw

1.2 Technical Specifications of CNG based Auto Tipper (1.75 cum) and Auto Tipper (2.5 Cum) & 3.6 cum

S.no	Description	Specification
1	Type of Tipper Cart for 1.75 cum	Motorized vehicle with hydraulically operated hopper covering mechanism from top having two compartments for carrying wet and dry waste separately with a hooter, compatible with mobile/ fixed transfer station. These vehicles will have one black box attached to back side of each vehicle for separate collection of DHW
2	Type of Tipper Cart for 2.5 cum ,	Motorized vehicle with hydraulically operated hopper having one compartment for carrying desilted waste, compatible with mobile/ fixed transfer station.
3	Make of Chassis	BSV1
4	Type of Chassis Frame	Conventional
5	Type of Chassis	Chassis with Facecowl
6	Type of Fuel	CNG
7	Vehicle Emission Compliance	BS-V1

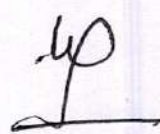
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8	Fuel Consumption (declared by OEM as certified by Test Agency under Rule 115 of CMVR 1989) (Kmpl)	28.49
9	Speed, Max (Km/Hr)	70
10	Max Engine Power BHP (BHP@rpm)	26
11	Rated RPM at Max Engine Power	4000
12	Max Engine Torque (N-M@rpm)	51
13	Rated RPM at Max Engine Torque	51
14	Main Engine Aspiration	Natural Aspiration
15	No of Cylinder in Main Engine (Nos)	2
16	Fuel Tank Capacity (Ltrs)	70 litre
17	Gradeability of Vehicle with load (%)	24
18	Ground Clearance (mm)	160 millimeter
19	Wheel Base (mm)	2250 millimeter
20	Kerb Weight (Kg)	990 kilogram
21	Gross Vehicle Weight (Kg)	1630 kilogram
22	Type of BIS MARKED Vehicle Tyre	Radial
23	Chassis Transmission System	Manual
24	Number of Speed/ Forward Gears	5
25	Type of Steering	Manual
26	Turning Radius Min (mm)	4625 millimeters
28	Speed Governors/ECU	Yes
29	Front Vehicle Brake	Disc brake Hydraulic
30	Rear Vehicle Brake	Drum brake hydraulic
31	Type of Clutch	Single plate dry
32	Tipping Angle (Degree)	89
33	Tipper Container capacity/ Volume (cubic metres)	1.8
34	Tipper Container Material	Mild Steel
35	Size Of Front Tyres (mm)	145R12-8PR Radial
36	Size Of Rear Tyres (mm)	145R12-8PR Radial -
37	Size of Wheel (mm)	304.8 millimeter
38	Tipper body Pivot length (mm)	618 millimeters
39	Tipper body Length (mm)	2375 millimeters
40	Tipper Body Height (mm)	675 millimeters
41	Overall Height of Tipper from GEet6d (mm)	1568 millimeter
42	Body Plate Thickness (mm)	1.6
43	Main Frame Thickness (mm)	3 millimeters
44	Hydraulic System	Yes
45	Tipping Hydraulic Cylinders (Make)	Reputed make
46	Hydraulic System Driven by	Main Engine
47	Thickness of sheet from tipper Collector Container Made (mm)	1.6 millimeter

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48	Dumping Height (mm)	1222 millimeter
49	Engine Oil Pressure Level Indicator in Control Panel	Yes
50	Fuel Gauge Indicator in Control Panel	Yes
51	Engine Cooling Liquid Temperature Indicator in Control	Yes
52	Locking/Unlocking of Tipper Discharge Container	Yes
53	Lowering/Lifting of Tipper Discharge Container	Yes
54	Paint	Paint and painting process shall be superior quality to ensure long lasting structure resistant to
55	ABS Fitted	No
56	Operating Hour Meter	No
57	Counter Weight	No .
21	Accessories	GSM SIM Tracker with 1 year warranty Head lamp, front and rear indicators Fire extinguishers First Aid Kit

Certification	
Chassis Certification	ARAI or any Agency Approved by Govt. Of India
At the time of supply of the equipment, the chassis should not be more than 6 months old	Yes
Generic Parameters	
Type of TIPPER	Garbage Tipper
Type of TIPPER if other tipper, please declare type of Tipper,	3.6 Cum
Type of Chassis Frame	Semi Integral
Category of Vehicle for which Chassis to be used	Light Capacity Commercial Vehicles
Type of Fuel	CNG
Vehicle Emission Compliance	BS-VI



Fuel Consumption (Kmpl)	30 ± 10%
Speed, Max (Km/Hr)	80 ± 5%
Max Engine Power BHP (BHP@rpm)	44 hp & Above
Max Engine Torque (NM@rpm)	105 NM & Above
Main Engine Aspiration	Turbocharged Intercooled, Natural Aspirated
No of Cylinder in Main Engine (Nos)	3 or Above
Fuel Tank Capacity (Ltrs)	40 liter or above
Gradeability of Vehicle with load(%)	30 ± 5%
Ground Clearance (mm)	175 millimeter or above
Wheel Base (mm)	2350 millimeter or above
Kerb Weight (Kg)	1300 kilogram ± 5%
Gross VehicleWeight (Kg)	2500 kilogram ± 5%
Type of BIS MARKED Vehicle Tyre	Radial
Number of Speed/ Forward Gears	5
Type of Steering	Power Operated
Turning Radius , Min (mm)	5850 mm or Lower
Speed Governors/ECU	Yes
Front Vehicle Brake	Disc
Rear Vehicle Brake	Drum
Tipping Angle (Degree)	80 to 85
Constructional Parameters	
Size Of Tyres (mm)	185 R 14
Size of Wheel (mm)	185 millimeter
Tipper body pivot length (mm)	2500 millimeter or above
Tipper body Length (mm)	2500 millimeter or above

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Tipper Body Height (mm)	1145 millimeter or above
Overall Height of Tipper from Ground (mm)	2100 millimeter \pm 5%
Body Plate Thickness	1.5 or Above
Main Frame thickness (mm)	3 millimeter or above
Hydraulic System	Yes
Tipping Hydraulic Cylinders(Make)	Reputed Make Brand
Hydraulic System Driven by	Power Pack Unit
Tipper Container Material	Mild Steel
Thickness of sheet from tipper Collector Container Made (mm)	1.6 millimeter
Dumping Height (mm)	1500 millimeter or above
Engine Oil Pressure Level Indicator in Control Panel	Yes
Fuel Gauge Indicator in Control Panel	Yes
Engine Cooling Liquid Temperature Indicator in Control Panel	Yes
Locking/Unlocking of Tipper Discharge Container	Yes
Lowering/Lifting of Tipper Discharge Container	Yes
Performance Parameters	
Standard Sparewheel and Tool Kit	Yes
Warranty Time (Month)	12 month
No. Of Free Service (Nos)	3
Battery Warranty (Months)	12 month



Warranty Distance (Km) (Unlimited during warranty Period)	Yes
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1.1.1 Fitness/compliance test as per the Ministry of Road transport and highways
GSR No.

709 (E) dated 8 October
2014

1.1.2 Compliance certificate for the following test to be carried out as per the safety standards for Auto Tippers/ Tipper Cart as per the Ministry of Road Transport and Highways notification No. S.O. 2590 (E) dated 8 October 2014

1.1.3 The Contractor\Agency is required to deploy licensed operators for operating Auto Tippers

1.3 Technical Specifications of Refuse Compactor Bins of 1.1 m3 Capacity

1.1.4 General: Steel Solid waste Containers for waste collection shall be provided with 4

Castor Wheels made of one virgin piece of minimum 200 mm dia and 50 mm width shall have 360 degree with Blocking System. The Solid waste Collection Bins shall be of 1100 Ltrs Capacity as per DIN Standards. These should be closed type hygienic bins meeting DIN Standards. These Bins should be provided with Bin Cover which opens automatically when the Bin Lifter lifts the Bin onto the machine hopper. For this purpose, the Bins should be provided with special link arrangements, which are operated by the Compactor Bin Lifter. The Bin construction should be of Pressed Steel Sections for ensuring adequate structural strength required for handling with the Compactor Bin Lifter. Bin Shall be designed to be easily handled by two Bin

Handlers. b) Capacity:1100 Litre (1.1 m3)

c) Base Material Body Mild Steel of minimum 2 mm thickness

d) Lid: Mild Steel

e) Dead weight: Minimum 115 kgs (Approx)

f) Load capacity: Minimum 600 kgs (Approx.)

g) Other Requirements:

- i. Four heavy duty swivel castors (360° turning)
- ii. Adjustable spring supported Lid for easy opening and closing

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- iii. Rubber Profile on the lid, which should protect fingers before closing the lid of sections min. 3 cms between body and lid
- iv. Handles on body
- v. Handle on the lid
- vi. Painted Green I Blue I Black as specified Bins. shall be painted with primer and anti-corrosive paints from inside and outside.
- vii. All the bin locations should be provided with rigid concrete surface.

Technical Specifications of Refuse Compactors (14 cum capacity)

1.1.5 General: The Refuse Compactor Vehicle shall be of universal type and suitable for changing fields of operation. It should be easy to handle and should allow the operating personnel to operate the vehicle with minimum physical effort and maximum safety. The vehicle should be capable of automatically loading and unloading solid waste from closed containers of 1100 litres capacity as quick as possible. secs, with facility for automatic opening of Bin Lid / Cover when in fully lifted condition in compactor hopper, with inbuilt link arrangement of Bins.

1.1.6 The Loading Height should not be more than 950mm - 1 metre from the ground level.

The body should consist of: Front bearings, ejection panel, Tailgate with hopper, slide plate, packer plate and Bin lifter.

1.1.7 The Volume of compactor would be 14 cum. The Tailgate hopper volume will be minimum 1.75 cum. Simultaneous automatic working of the compaction cycle should be possible while unloading from 1.1 cum bins. No damage to the Bin should occur.

The Compaction operation should be able to operate during loading/unloading from the Bins and during the travel of the truck.

1.1.8 Refuse Collection Body: The refuse collection body should be in torsion-free steel construction of capacity 14 cum. The bottom, the sidewalls and the top must from a box-type design. The sidewalls as well as the top should be in reinforced frame steel construction. The tailgate bearing and automatic tailgate locking should be integrated into the rear frame of the body. At its front, a traversing bar should be welded to the bottom and top, which serves as a bearing for the telescopic for the telescopic ejection cylinder.

14

- 1.1.8.1 Roof panelling thickness: minimum 3mm
- 1.1.8.2 Side panelling thickness: minimum 4 mm
- 1.1.8.3 Flooring thickness: minimum 4m
- 1.1.8.4 Rear cross bar thickness: minimum 6 mm
- 1.1.8.5 Superstructure Member thickness: Box section minimum 4 mm
- 1.1.8.6 Base frame Member thickness: minimum 6mm

1.1.9 Ejection Panel: The ejection panel shall run on a synthetic guide block within the lateral longitudinal guides of the boat-type bottom group of the refuse collection body and must be operated by a telescopic hydraulic ram. It must act during loading as a resistance for the refuse compaction process. The ejection plate shall be wear resistant steel plate of minimum 4 mm thickness of suitable grade with adequate strength to meet the operational requirements. The withdrawal of the ejection panel during the loading process shall be through hydraulic control to ensure optimum compaction.

1.1.10 Tailgate: The tailgate should form the main part of the refuse collection vehicle. The Tailgate should comprise of three main groups: The tailgate with hopper should form the basic structure to which the functional parts, slide plate and packer plate are attached. It should be equipped with Automatic-locking system through long hole and hooks. This locking-system should be completely liquid- proof between tailgate and body by using double lip rubber seal. The hopper should be able to take the refuse from the solid waste bins. The hopper should have a capacity of minimum 1.75 cum.

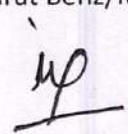
1.1.11 Tailgate Hopper: Material of construction- Domex/ Hardox steel. The packer plate should be made of special steel of suitable grade.

- 1.1.11.1 Side panelling thickness: Minimum 3 mm
- 1.1.11.2 Rear side of hopper plate thickness: minimum 6mm
- 1.1.11.3 Hopper bottom plate thickness: minimum 6mm
- 1.1.11.4 Superstructure Member thickness: minimum 6mm

1.1.12 Lifter System: 1. The lifter should be reliable with proven technology. There should be optimum system for the collection of various types of refuse within one collection point and its low rake rail should permit the hand loading of bulk refuse items as well as the easy emptying of wheel bins. Tipping of 1.1 m³ container and simultaneously operation of the compacting mechanism must be possible without moving back the lifter. It should be possible to undertake simultaneous operation of compaction and loading/unloading or compaction and movement of truck to save operational time. The lifter should be able to unload Solid waste from bin of 1100 Litre capacity. The bin lifter shall be suitable to lift the standard containers (HDPE Bins/Metal Bins) of size 120 liter, 240 liter, 600 liter and 1100 liters.

1.1.13 A safety valve shall be provided in the system to avoid sudden descent of bin lifter in case of failure in hydraulic system or failure of automatic system.

1.1.14 Chassis: Make: TATA/Ashok Leyland/ Eicher/ Bharat Benz/Mahindra k)
GVW: Minimum 16200 Kg or Equivalent



- l) Unladen kerb weight of Chassis: 4000 -4500 kg
 - m) Permissible garbage weight:8000 kg
 - n) Wheel Base: minimum 4200 mm
 - o) Engine: Minimum 180 HP, BS-VI model
 - p) Transmission: 5 speed synchromesh gear box
 - q) Steering: Power steering
 - r) Tyres: 10.00 x 20- 16 PR, Front-2, rear-4, Spare-1(Lockable)
 - s) Dumping Operation: Tailgate Operation: Tailgate opening and closing for dumping should be controlled from driver's cabin Optional hand lever for manual operation. The tailgate hydraulic valves should be electro-hydraulic/ electro- pneumatic for rugged operation.
 - i. Ejector Plate operation: This operation should be controlled from driver's cabin Optional hand lever for manual operation. The ejector plate hydraulic valve should be electro-hydraulic/ electro-pneumatic.
 - ii. Safety Features: Hose burst valve Shall be fitted to the system to prevent the tailgate descending in the event of the hydraulic failure. There shall be a bodyprop provided on the tailgate to hold the tailgate in the open position for safety of workshop personnel when entering the body for maintenance or repair.
 - t) Painting the entire unit shall be painted with two coats of superior quality anti-corrosive primer with two coats of approved quality paint to ensure long lasting, resistance to rust, weathering and breakage. The color shade should be purchaser's choice. The compactor shall meet with all statutory requirements of
 - iv. Rear cross bar thickness: minimum 6mm
 - v. Superstructure Member thickness: Box section minimum 4 mm
 - vi.Base Frame Member thickness: minimum 6 mm
- 1.1.19 Ejection Plate: The ejection plate should run on a synthetic guide block within the lateral longitudinal guides of the boat-type bottom group of the refuse collection body and must be operated by a telescopic hydraulic ram. It must serve during loading as a resistance for the refuse compaction process. The ejection plate should be of steel plate of minimum 4 mm thickness and of suitable grade to meet the operational requirements. A hydraulic control unit should regulate the withdrawal of the ejection panel during the loading process, so that the compaction is optimized. The mechanism should consist of a profile-reinforced, wear-resisting plate of great sturdiness and the guide frame with the guide blocks. Alignment of ejection plate should be proper during forward & reverse movement.
- 1.1.20 Tailgate: The tailgate should form the main part of the refuse collection vehicle. The Tailgate should be made of by three main groups: Tailgate with Hopper: The tailgate with hopper should form the basic structure to which the functional parts, slide plate and packer plate should be attached. The tailgate shall unlock automatically and raise, to permit ejection of refuse from RCV hopper when hydraulic valve is actuated. It should be equipped with Automatic-locking system between tailgate and RCV Hopper body through long hole and hooks. This locking-

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system should be completely liquid- proofed between tailgate and body by using double lips rubber seal.

1.1.21 The hopper should be able to take the refuse from the solid waste bins of 1100/600 liter liters capacity. The hopper should have a capacity of minimum 1.10m³. At its top, it should be fixed to the refuse collection body by means of two slotted hinges and should be supported by two hydraulic rams and two locking hooks mounted to the rear frame of the body. These bearing points and the locking hook should take up the compression forces . The profile-reinforced side walls of the frame should constitute the bearing for the two hydraulic rams which automatically release the locking mechanism and then lift the loading system for refuse discharge up to the final stop. The hopper used to take in the refuse should be permanently welded in between the side walls and should consists of highly solid fine-grained constructional stell made of High resistance steel. The carriage plate should be robust profile reinforced steel construction supplied with a wear-resistant steel .The carriage plate should be robust profile reinforced steel construction supplied with a wear-resistant cover plate made of high resistant Steel. The thickness of side plate should be of suitable grade material . it should be actuated by two hydraulic cylinders and must run on suitable number of sliding blocks .At the bottom end of the slide plate a moveable packer plate should be Embedded . The packer plate should consist of highly solid steel and the strongly Reinforced lateral bearing arms for the attachments of the hydraulic rams. It should clear the hopper and initiate the primary compaction of the refuse and its transportation into the refuse collection body should begin. The packer plate should be made of special High resistance steel of suitable grade and should be actuated by 2 hydraulic cylinders.

1.1.21.1 Side panelling thickness: minimum 6mm

1.1.21.2 Rear side of hopper plate thickness: minimum 6mm

1.1.21.3 Hopper bottom plate thickness: minimum 6mm

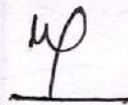
1.1.21.4 Superstructure Member thickness: minimum 6mm

1.1.22 Lifter System: The Lifter System should be capable of lifting and unloading solid waste from 1100 ltrs. Capacity bins. It should be light weight for high legal payloads. It should be reliable system with proven technology . There should be optimum system for the collection of various types of refuse within one collection point and its low rave rail should permit the hand loading of bulk refuse items as well as the easy emptying of wheel bins . Tipping of 1.1m³ container and simultaneously working of the compacting mechanism must be possible without moving back the lifter .This should be done without any damages to the container . During compaction operation, loading/unloading of bins and travel of Truck should be able to save operation time. The Tailgate lifting and closing as well as the compaction operation will be controlled with Hydraulic Lever system placed on rear side of the vehicles. The lifter system shall be provided with four cylinders i.e two cylinders for levelling and lifting of Bin, and two cylinders for tipping operation.

1.1.23 Mounting: The lifter should be integrated at the rear end of the tailgate.

1.1.24 Chassis: Make: TATA/Ashok Leyland/Eicher/Bharat Benz/ Mahindra

1.1.25 GVW: Minimum 11000 Kg



- 1.1.26 Wheel Base: minimum 3900mm
- 1.1.27 Engine: Minimum 120 HP, BS-VI model
- 1.1.28 Transmission: 5 speed synchromesh gear box
- 1.1.29 Steering: Power steering
- 1.1.30 Tyres: 8.25 x 20 – 16 PR, Front-2, rear-4,Spare-1(Lockable)
- 1.1.31 Dumping Operation:
- 1.1.32 Tailgate Operation

1.1.32.1 Tailgate opening and closing for dumping should be controlled from driver's cabin Optional hand lever for manual operation. The tailgate hydraulic valves should be electro-hydraulic/ electro-pneumatic for rugged operation

1.1.32.2 Electric : Automatic operation (continuous cycle) by pushing electric operated push-button, compacting. mechanism should be running till you switch off through the push button. Optional Manual operation by hand lever facility to be provided. The automatic cycles should be controlled with 4 proximity switches together with the hydraulic integrated control-group. Further 2 emergency stop switches should be provided.

1.1.32.3 The control system should be only operated by hydraulic and electric. Optionally one should be also able to operate the whole compactor with a hand lever, which comes out directly from the main-control-block

1.1.32.4 Emergency electric stops to be provided. Signal-system to the driver's cab to be provided on each side there should also be 1 switch for the signal system to the driver's cab. The system should encompass all installations relevant for the functioning at the entire bodywork and the distribution voltage should be tapped from the electrical system of the chassis vehicle.

1.1.33 Safety Features: Hose burst valve shall be fitted to the system to prevent the tailgate descending in the event of the hydraulic failure. There shall be a body prop provided on the tailgate to hold the tailgate in the open position for safety of workshop personnel when entering the body for maintenance or repair.

1.1.34 Painting The entire unit shall be painted with two coats of superior quality anti- corrosive primer with two coats of approved quality paint to ensure long lasting, resistance to rust, weathering and breakage. The color shade should be purchaser's choice.

- Waste transportation by compatible Hook Loader from one place to another.
- At one SCP, min 02 Integrated units shall be deployed.

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S.no	Description	Specification
1.	Type of Fuel	Diesel
2.	Chassis Make	EICHER/TATA/AL/M&M
3.	Chassis Model Number	Reputed Make
4.	Chassis Type	Heavy Motor Vehicle with Face Cowl
5.	Engine Capacity (cc)	Min 6693
6.	Vehicle Emission Compliance	BS-VI
7.	Chassis Gross Vehicle Weight	28000 kilogram
8.	Kerb Weight	Min 6160
9.	Pay Load Capacity	Min 18 tonne
10.	Max Engine BHP	200
11.	Max Engine Torque (N-m@rpm)	850
12.	Maximum Speed of Vehicle (kmph)	80
13.	No. of Speed/ Forward Gears (Nos)	6
14.	Braking Distance	Min 30 meter
15.	Gradeability of Vehicle (%)	23
16.	Wheel Base	Min 5050 millimeter
17.	Engine Aspiration System	Turbocharged Intercooler
18.	Mount Type	Chassis Mounted
19.	Fuel Tank Capacity	Min 350 liter
20.	Power Take off Unit	Yes
21.	Number of Axles (nos)	3
22.	Number of Front Tyres (nos)	2
23.	Number of Rear Tyres (nos)	8
24.	Hydraulic Tank Capacity	170 liter
25.	Hydraulic pump filter (micron)	Min 25
26.	Operating pressure	140 bar
27.	Arm Cylinder (nos)	2
28.	Jib cylinder (nos)	1
29.	Container and boom locking. cylinder	Double acting type
30.	Jib Cylinder/ Slide Cylinder (doble Acting, Equipped with Counter Balance Valve hoses, tubes and Fittings)	Yes
31.	Lifting hook with necessary reinforcement (with complete test report)	Yes
32.	Stablizers at Suitable Location along the rear of vehicle to ensure Stability of the Vehicle during Loading	Yes
33.	Lifting/Dumping Capacity of Hook Loader (to be checked with test report by buyer)	18000 Kilogram

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34.	Type of Hydraulic pump in Hook Loader	Vane type
35.	Hooklift Length	Min 5200 millimeter
36.	Hooklift Height (from the bottom of the bookbar)	Min 1500 millimeter
37.	Dumping Angle (degree)	45
38.	Tipping Time	Min 40 second
39.	Refuse container volume (Cu-m)	Min 16 cum
40.	Floor Plate Thickness of Container	6 millimeter
41.	Side Plate Thickness of Container	5 millimeter
42.	Material for Container Body (COR-TEN Steel)	Yes
43.	Type of Rollers	Heavy Duty on Rear side
44.	Overall Size of Container (L x W x H) (mm)	Min 6000x2400x2300
45.	Weight of Container	Min 3650 kilogram
46.	Volume of charge chamber of Fixed compactor (Cu-m)	3
47.	Operating pressure of Fixed compactor	Min 180 bar
48.	Compaction thrust of Fixed compactor	Min 320 kilo Newton
49.	Power of electrical motor of Fixed compactor	Min 11kiloWatt
50.	Phase of Power Supply (nos.)	3
51.	Capacity of hydraulic operated bucket	Min 2500
52.	Floor Thickness of charge box	8 millimeter
53.	Side thickness of charge box	6 millimeter
54.	Charge Box Opening length	Min 1800 millimeter
55.	Charge Box Opening width	Min 850 millimeter
56.	Cycle Time	Min 40 second
57.	Boost Force	Min 340 kilo Newton
58.	Weight of Fixed Compactor	Min 4600 kilogram
59.	Loading Height	3800 millimeter
60.	Number of Hydraulic Cylinders (nos)	9
61.	Capacity of hydraulic Pump (cc/rev)	Min 10
62.	Oil Cooler	Oil Cooler completely integrated to the Hydraulic Power Pack
63.	Length of Electric Cable	20 meter

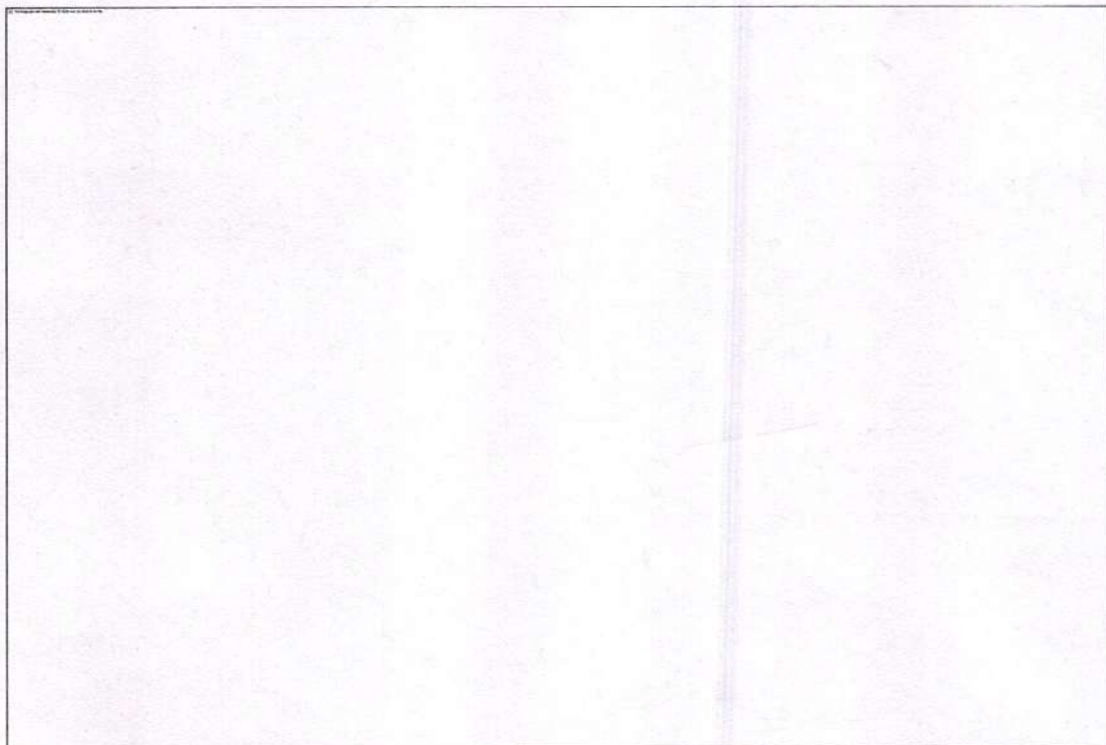
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64	Accessories	<ul style="list-style-type: none"> • PLC based Control unit Control panel with main switches • Emergency stop button • Safety device (provision of automatic locks/ safety valves) • Functional control for compaction unit • Hydraulic Compaction Container Coupling • Minimum two numbers of guide plates for roll-On roll-off for one container • Hydraulic Vertical Container Gate • Opening/Closing Mechanism • Functional light and 75% full warning indication • Lecheate collection Tray/drainage system • Fire extinguishers • First Aid Kit
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- 1.1.35 Chassis Certification as per ARAI/VRDE/ICAT
- 1.1.36 Compliance certificate by submitting from 22-A for pollution standards, Safety standards of components and road worthiness as per CMVR Rules
- 1.1.37 Availability of test reports for all critical components from manufacturer or OEM of Hydraulic Pumps, Hydraulic Cylinders, power takeoff unit, Electric Motor etc shall be from any ILAC /NABL accredited I Central Govt Lab
- 1.1.38 Registration to Local RTO (Regional Transport Office)/ RTA (Regional Transport MUNICIPAL CORPORATION) by Seller
- 1.1.39 Hydraulic cylinder and hydraulic pump used conforming of ISO/IS specifications f)Welding of structure should be conformed to relevant IS standards
- g) Furnish Test Certificate for Lifting Capacity I Dumping Capacity/ Stability of Hook Loader from any ILAC /NABL accredited I Central Govt Lab.

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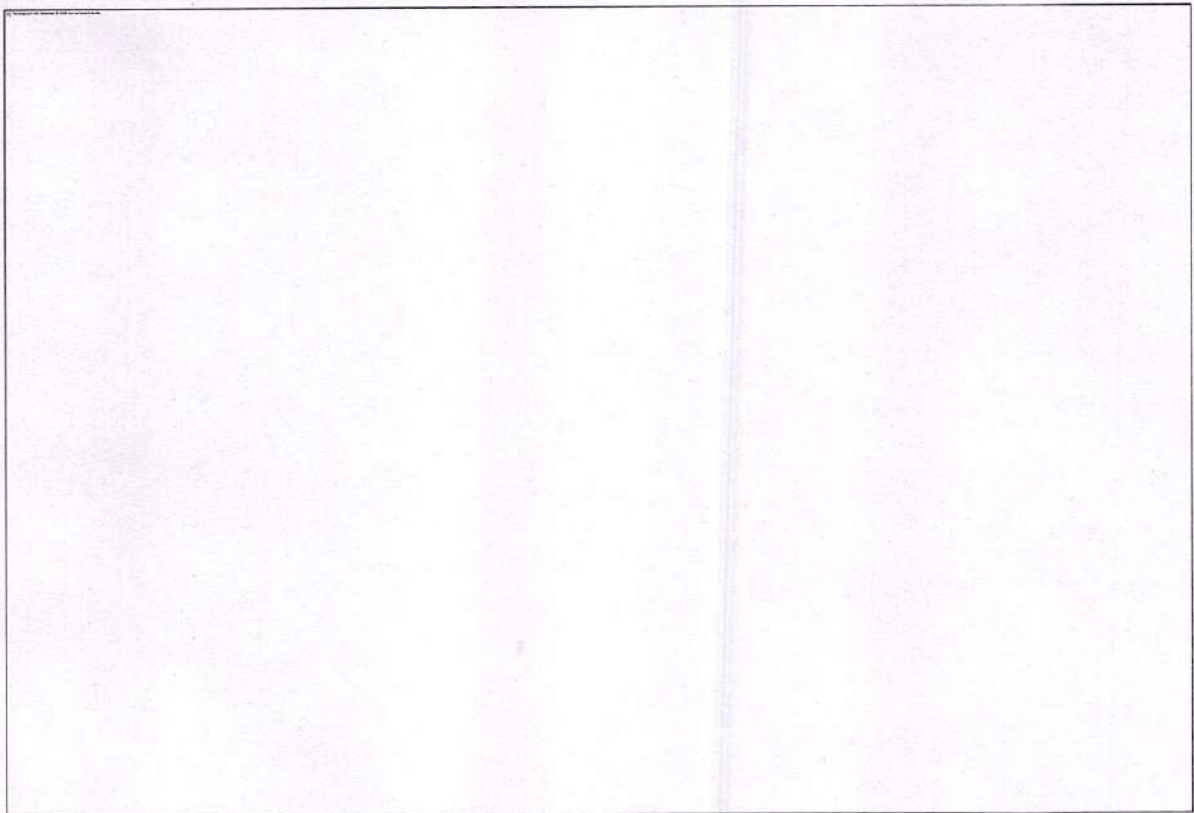
Description	RC1112	RC114	RC1116	RC118	RC1120
Container volume	12m3	14m3	16 m3	18 m3	20 m3
Body length (L)	3985 mm	4379 mm	4924 mm	5365 mm	5860 mm
Superstructure Weight*	5572 kg	5711 kg	5915 kg	6074 kg	6263 kg
Hopper Volume (Water Volume)	0.92 m3				
Compaction cycle time	22 to 25 sec				
Operating System	Entry-M (Manual), Entry-E (Electrical)				
Tailgate Lifting Time	12to 15 sec				
Est. Discharging time	25 sec	30 sec	36 sec	40 sec	44 sec
Electric Power	24V				
Integrated Sewage Tank Volume	38liters				
Tailgate Sewage Tank Volume**	210 liters				
Bin lifter lifting capacity (Wide comb) **	600 kg				
Bin lifter lifting cycle time (up and down) (Wide Comb)**	12to15 sec				



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Sl. No	Description	Parameter
1	Body Volume in CuM	16
2	Compaction ratio base on Indian waste (approx.)	0.7 to 0.8
3	Pressure (Bar)	240
4	Power (KW)	5.5
5	Voltage (V)	415
6	Working Capacity m3/hour	125
7	Compaction Force (Kn)	360
8	Cycle time for Crusher (Seconds)	52
9	Cycle time for Tipcart (Seconds)	30-35
10	Compaction Chamber Volume {m3}	1.8
11	Tip Cart capacity (m3)	2
12	Approximate Compactor weight with Hydraulics (Kg}	6090

Lay out of Mini Transfer Station with 2 Compactors.



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Technical Specification



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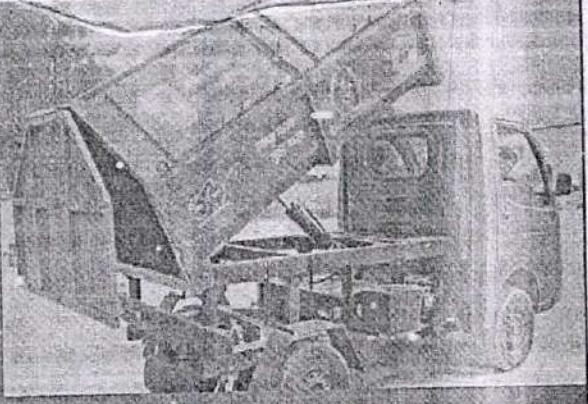
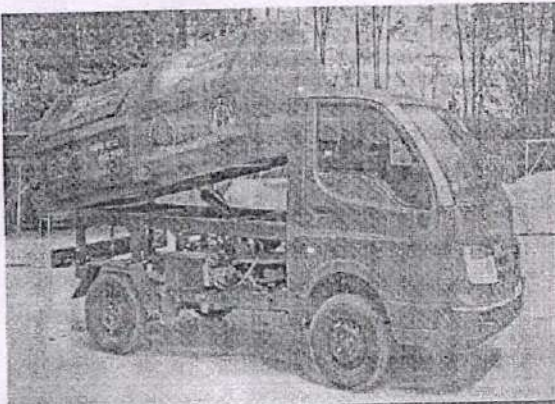
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