

Minutes of the 62th Meeting of State Level Task Force on Solid Waste Management for discussion on several issues of solid waste management

In the Chair :	Director, SUDA
Meeting Date :	6 th June, 2024
Meeting Venue :	SUDA Conference Hall (2 nd Floor)
Meeting Time :	12.00 Noon
Meeting Attendees :	

➤ List of Members and participants : Annexed

Director, State Urban Development Agency (SUDA) chaired the meeting.

At the outset, he welcomed all the members present and explained the discussion points of the meeting. After threadbare discussion the following decisions were arrived at:

1. The Committee was appraised on the modified draft RfP for floating tender for engagement of agency for bio-mining and bioremediation of legacy waste of the ULBs. After threadbare discussion, the Committee recommended the following modifications/ addendum of the clauses. The Committee further recommended to finalize the draft RfP incorporating the necessary modifications/ addendum.

A. Recommended modification of existing clauses:

Clause No	Existing explanation	Recommended modification
2. Earnest Money Deposit (EMD)	Such deducted total amount will be refunded after 12 months of completion of the work.	Such deducted total amount will be refunded after 03 months from the payment of the full and final settlement bill of the work.
* Note 1:	The quantity of bio-mining of legacy waste can be further increased up to 25% i.e., 0.38 lakh MT depending upon the performance of contractor and availability of funds.	The quantity of bio-mining of legacy waste can be further increased up to 50% i.e., 0.76 lakh MT depending upon the performance of contractor and availability of funds. Rate will be considered as 80% of the quoted rate for the increased quantity beyond the tender quantity.
3.4 Joint Venture	In the event that the bidder forms a Joint Venture as described above, the bidder shall submit a notarized copy of the Joint Venture Agreement, as the case may be, with its technical proposal, where it should be mentioned that both the firm will form a separate registered firm, within 3 months from the issuance of work order, to execute the work and payment will be made to the Account of the newly formed firm, if they become the L-1 bidder.	In the event that the bidder forms a Joint Venture as described above, the bidder shall submit a notarized copy of the Joint Venture Agreement along with registered copy of MOU between the JV partners, as the case may be, with its technical proposal, where it should be mentioned that both the firms will form a separate registered firm, within 3 months from the issuance of work order, to execute the work and payment will be made to the Account of the newly formed firm, if they become L-1 bidder.
5. Eligibility Criteria. 5.5	The prospective bidders should not have been Black Listed from any Government Organization/ Statutory Body etc. during	The prospective bidders should not have been Black Listed from any Government Organization/ Statutory Body etc. during the last 3 (Three) years.



Clause No	Existing explanation	Recommended modification
	the last 3 (Three) years. (A self-declaration in this respect has to be furnished by the prospective bidders without which the Technical Bid shall be treated as non-responsive).	(An Affidavit, duly affirmed before the 1st class Judicial Magistrate, in this respect has to be furnished by the prospective bidders without which the Technical Bid may be treated as non-responsive and may be summarily rejected).
5.11	(A self-declaration in this respect has to be furnished by the prospective bidders without which the Technical Bid shall be treated as non- responsive)	(An Affidavit, duly affirmed before the 1st class Judicial Magistrate, in this respect has to be furnished by the prospective bidders without which the Technical Bid may be treated as non-responsive and may be summarily rejected).
8.1	The concessionaire shall commence the work within 15 days from the date of awarding the Work order. Contractor shall complete all activities covered in the scope of work up to installation & commissioning of all the machineries required for bio-mining and bio-remediation of the legacy waste within 60 days from date of issuance of Work Order. The term and condition shall be governed as per the tender document.	The concessionaire shall start the work within 15 days from the date of awarding the Work Order. The date of issuance of LOA cum Work Order shall be treated as Day Zero. The agreement shall be signed within 15 working days from the date of awarding the Work Order. The Earnest Money Deposit (EMD), may be forfeited if the L1 bidder withdraws from signing the agreement or if there is any misrepresentation of facts. If the successful Bidder withdraws before the agreement is signed and/or does not sign the agreement within 15 working days from the date of awarding the Work Order, TIA can cancel the Work Order and also can float a fresh tender. The Contractor shall complete all activities covered in the scope of work up to installation & commissioning of all the machineries required for bio-mining and bio-remediation of the legacy waste within the following days from date of issuance of Work Order: - If the quantity of legacy waste is less than one (01) Lakh MT then all activities covered in the scope of work up to installation & commissioning of all the machineries required for bio-mining and bio-remediation of the legacy waste shall be completed within 60 days from date of issuance of Work Order - If the quantity of legacy waste is more than one (01) Lakh MT but less than five (05) Lakh MT, then all activities covered in the scope of work up to installation & commissioning of all the machineries required for bio-mining and bio-remediation of the legacy waste shall be completed within 75 days from date of issuance of Work Order. - If the quantity of legacy waste is more than five (05) Lakh MT, then all activities covered in the scope of work up to installation & commissioning of all the machineries required for bio-mining and bio-remediation of the legacy waste shall be completed within 90 days from date of issuance of Work Order. The term and condition shall be governed as per the tender document.
9. Penalties - a.	Penalty of Rs. 1.0 lakh per month will be imposed for delay in	Penalty per month @ Rs.30.0 lakh or 2% of the entire Contract Value, whichever is less, shall



Clause No	Existing explanation	Recommended modification
	commissioning/mobilization/ machineries installation period of the plant beyond the scheduled date limited to maximum of 10% of the Contract Value.	be imposed for delay in commissioning (start of processing of legacy waste)/mobilization/ machineries installation period of the plant beyond the scheduled date, limited to a maximum of 10% of the entire Contract Value.
9. Penalties – b.	in the SWM Rules, 2016	in SWM Rule, 2016, C&D Rules, 2016, PWM Rules 2016 or any other relevant law for the time being in force
13. Termination of contract due to event of default by Agency	13. a. Without prejudice to any other right or remedy which SUDA/Urban Local Body (ULB) may have in respect thereof under this contract, upon the occurrence of agency's Event of Default, the SUDA/ULB may, subject to the provisions of this contract, terminate this contract in the manner as set out under:	14. a. Without prejudice to any other right or remedy which SUDA/Urban Local Body (ULB) may have in respect thereof under this contract, upon the occurrence of agency's Event of Default, and / or, upon indefinite delay of non execution of contract by the successful bidder, and / or, if the agency does not commence the work within the period specified in the contract/ letter of intent/LOA/work order, then, TIA may, subject to the provisions of this contract, terminate this contract in the manner as set out here-under, and, TIA shall also be entitled to withdraw the letter of intent/LOA/work order (if applicable).
	13. i.If SUDA/ULB decides to terminate this contract upon the occurrence of agency's Event of Default, in the first instance, he shall issue preliminary notice to the agency. Within fifteen (15) days of receipt of preliminary notice, the agency shall submit to SUDA/ULB through the Competent Authority in sufficient detail, the manner in which he proposes to cure the underlying Event of Default. In case of non- submission of the agency's proposal to rectify within the said period of fifteen (15) days, SUDA/ULB shall be entitled to terminate this contract by issuing termination notice and forfeited EMD, security deposit (SD) and PBG. If the total amount due to the SUDA/ULB exceeds any payment due to the agency, the difference shall be a debt payable to the SUDA/ULB.	14. i.If SUDA/ULB decides to terminate this contract upon the occurrence of agency's Event of Default, in the first instance, SUDA/ULB shall issue preliminary notice and /or show cause notice to the agency. Within fifteen (15) days of receipt of preliminary notice, the agency through their competent authority shall submit to SUDA/ULB their written replies giving sufficient details regarding the manner in which the agency proposes to cure the underlying Event of Default. The said written proposal and/ or written reply have to be supported with relevant documents (wherever applicable). In case of non- submission of the agency's written proposal and/ or written reply within the stipulated time, and/or, in case agency's written proposal and/ or written reply did not satisfy the existing standard or norms with regard to SWM Rule, 2016, C&D Rules, 2016, PWM Rules 2016 or any other relevant law for the time being in force and directions of the Hon'ble NGT, SUDA/ULB, shall be entitled to terminate the contract by issuing a termination notice and forfeit the EMD, Security Deposit (SD) and PBG. If the total amount due to the SUDA/ULB exceeds any payment due to the agency, the difference shall be a debt payable to the SUDA/ULB by the agency.
	13. iii.If the agency's proposal to rectify the underlying event of default is submitted within the period stipulated therein, the agency shall have further	14. iii.If the agency's written proposal to rectify the underlying event of default is submitted within the period stipulated therein, the agency shall have further period of fifteen (15) days to remedy/cure



Clause No	Existing explanation	Recommended modification
	period of fifteen (15) days to remedy/cure the underlying event of default. If, however the agency fails to remedy/cure the underlying event of default within such further period allowed, SUDA/ULB shall be entitled this contract, by issue of termination notice and forfeited EMD, security deposit (SD) and PBG. If the total amount due to the SUDA/ULB exceeds any payment due to the agency, the difference shall be a debt payable to the SUDA/ULB.	the underlying event of default. If, however the agency fails to remedy/cure the underlying event of default within such further period allowed, SUDA/ULB, shall be entitled to terminate this contract, by issuing a termination notice and forfeit the EMD, Security Deposit (SD) and PBG. If the total amount due to the SUDA/ULB exceeds any payment due to the agency, the difference shall be a debt payable to the SUDA/ULB.
	13.iv.Non-compliance of the provision of the RfP.	14. iv.Non-compliance of the provision of the RfP will make TIA, be entitled to withdraw the letter of intent/LOA/work order and also to terminate the contract.
18. Settlement of Accounts	ii. Upon termination of the contract under clause 13 or upon termination of contract due to occurrence of force majeure events mentioned in clause 14 above, the value of civil structures and plant & machinery as on the date of termination will be paid by the ULB to the agency after adjustment of amount due to the agency.	ii. Upon termination of this contract as per Clause No. 13, 14, 15 above or due to occurrence of force majeure events, the value of civil structures and plant & machinery as on the date of termination will be paid by the SUDA/ULB/TIA/Authority to the agency after adjustment of amount due to the agency.
19. Procedure for Disputes:	a. Amicable Settlement: Performance of the contract is governed by the terms & conditions of the contract, in case of dispute arises between the parties regarding any matter under the contract, either Party of the contract may send a written Notice of Dispute to the other party. The Party receiving the Notice of Dispute will consider the Notice and respond to it in writing within 30 days after receipt. If that party fails to respond within 30 days, or the dispute cannot be amicably settled within 60 days following the response of that party, clause-b shall become applicable. If the dispute cannot be amicably settled, then legal steps in accordance with the laws of India may be taken and courts at Kolkata shall have exclusive jurisdiction to adjudicate the disputes.	a. Amicable Settlement: Performance of the contract is governed by the terms & conditions of the contract, in case of dispute arises between the parties regarding any matter under the contract, either Party of the contract may send a written Notice of Dispute to the other party. The Party receiving the Notice of Dispute will consider the Notice and respond to it in writing within 30 days after receipt. If that party fails to respond within 30 days, or the dispute cannot be amicably settled within 60 days following the response of that party, clause-b shall become applicable. b. If the dispute cannot be amicably settled, then legal steps in accordance with the laws of India may be taken and courts at Kolkata shall have exclusive jurisdiction to adjudicate the disputes.

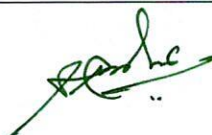


B. Recommended addendums:

Pg No-	In/ before / after the Clause	Recommended as an addendum
08	In 5.8 after 1 st paragraph but before brackets starts	Provided further that with regard to estimated cost of the present project with regard to the quantity required to be bio-mined and bio-remediated, a minimum of 50% of the turnover criteria are required to be fulfilled by the prospective bidders.
09	In 5.11 after 5.11.b	c. Any information/ statements uploaded in the tender, if, are found to be false/ incorrect/ fabricated/ misrepresented/ fraudulently made or concealed, the Bid will be liable to be rejected/cancelled/ terminated at any stage of the tender and the bidder shall also be liable to be prosecuted under relevant section of IPC/ Bharatiya Nyaya Sanhita & Indian Information and Technology Act 2008 & any other applicable law for the time being in force in addition to forfeiture of EMD/ Security Deposit.
11	12.Clarifications	12.1 To facilitate evaluation of proposals the Authority may, at its sole discretion, seek clarifications from any Bidder during the evaluation period. Such clarification(s) shall be provided within the time specified by the Authority for this purpose. Any request for clarification(s) and all clarification(s) shall be in writing and shall be supported by documents duly issued by appropriate authority. If a Bidder does not provide clarifications sought within the prescribed time, its proposal shall be liable to be rejected. In case the proposal is not rejected, the Authority may proceed to evaluate the proposal 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 Authority. Bidders are advised that the evaluation of proposals will be entirely at the discretion of the Authority. Bidders will be deemed to have understood and agreed that no explanation or justification on any aspect of the Bidding Processors election will be given. Any information contained in the proposal shall not in any way be construed as binding on the Authority, its agents, successors or assigns, but shall be binding against the Bidder if any Project is subsequently awarded to it under the Bidding Process based on such information. The Authority reserves the right not to proceed with the Bidding Process at any time without notice and to reject any Proposal without assigning any reasons.
23	SECTION 3: Technical Proposal - Standard Forms: Form TECH-6:	Form TECH-6: Sample Form of Joint Venture Agreement (For Joint and Several Liability of Joint Venture Partner) (To be submitted as a Notarised copy in Non-Judicial Stamp paper of Rs.100/- or above) This Joint Venture Agreement executed on this (DD.MM.YYYY) by and between (1)..... (lead partner) and (2) (JV partner) and we, the members (referred hereinafter as) and(referred herein after as...) have agreed to the following: 1. So as to bid collectively and, if the Contract is to be awarded to us, to complete and fulfil the work by concluding the Contract for the (Job), for which tenders have been sought by....., the Members have established a Joint Venture in the form of (type of JV), the

		members of which will have joint and several liability. 2. If the Contract is awarded to our Joint Venture, the Contract Agreement will be signed by.....and 3. which is the Member in Charge of our Joint Venture is fully authorized to act in the name and on behalf of our Joint Venture and we hereby attach the resolution adopted by each of us authorizing to act on our behalf. 4. The ratio of participation in the joint venture by the Members is as follows: : % : % 5. Under the provision that all the Members will be jointly and severally responsible and liable to.....the Specific involvements and work subdivisions (if any) of the Members will be as follows: 6. The Agreement to form this Joint Venture is entered on / / 20..... 7. This Agreement form for joint and several liability is an integral part of the Joint Venture Declaration and will be finalized in case the Contract is awarded to our partnership/legal entity prior to the signature thereof. 8. The composition of the constitution of the Joint Venture shall not be altered or the entity shall not be dissolved without the prior consent of the Employer. 9. In case of any breach of the said Contract by the Lead Partner or other Partner(s) of the Joint Venture agreement, the other Partner do hereby agree to be fully responsible for the successful performance of the Contract and to carry out all the obligations and responsibilities under the Contract in accordance with the requirements of the Contract. 10. Further, if the Authority suffers any loss or damage on account of any breach in the Contract or any shortfall in the performance of the equipment in meeting the performance guaranteed as per the specification in terms of the Contract, the Partner(s) of this JV agreement undertakes to promptly make good such loss or damages caused to the Authority, on its demand without any demur. (Signature) (Signature)
24	SECTION 3: Technical Proposal - Standard Forms: Form TECH-7:	Form TECH-7: Sample Form of Declaration of the Bidder <i>(Affidavit duly affirmed before the 1st class Judicial Magistrate)</i> Before the 1st class Judicial Magistrate AFFIDAVIT I/We, do hereby solemnly affirm and declare as follows : 1. That I/We the of the company in style and the name of “” which is situated at “.....” have duly authorized by and competent to affirm this affidavit on behalf of the said bidder. 2. That I/We have not been Blacklisted from any Government Organization/ Statutory Body/PSU etc. during the previous 03 (three) financial years from the date of issue of this tender notice. 3. That our organization/company have not been imposed with more than 70% of Liquidity Damage (LD) against a stipulated maximum ceiling of

		Liquidity Damages (LD) of the total project cost by any Government Organization/ Statutory Body/PSU etc. for tenders awarded in the previous 03(three) financial years from the date of issue of this tender notice. 4. That against our organization/company no arbitration exists with any Government Organization/ Statutory Body/PSU etc. during previous 03 (three) financial years from the date of issue of this tender notice. 5. That all the submitted documents, including statements uploaded in the tender are valid, genuine, true, correct & authenticate. Any information/ Statements uploaded in the tender if are found to be false/ incorrect/ fabricated/ misrepresented/ fraudulently made or concealed, the Bid will be liable to be rejected/cancelled/ terminated at any stage of the tender and/ or after award of contract and the bidder shall also be liable to be prosecuted under relevant section of IPC/ Bharatiya Nyaya Sanhiti& Indian Information and Technology Act 2008 & any other applicable law for the time being in force in addition to forfeiture of EMD and / or Security Deposit.
	3.Scope of Work – I.V.	For Cluster project (where the dumpsites are located at different sites) the bidder may transport the legacy waste from one site (where the machinery are not installed) to the other site (where the machinery are installed) for processing and disposal, in strict compliance of the provisions of the SWM Rule, 2016, C&D Rules, 2016, PWM Rules 2016 or any other relevant law for the time being in force, at their own cost. No extra claim will be allowed for loading, unloading and transportation etc. whatsoever.
35	13. Termination	The Contract shall be deemed terminated in following default Conditions for Termination i. Termination on expiry of the Contract: The Agreement shall be deemed to have been automatically terminated on the expiry of the Contract period unless the Authority has exercised its option to extend the Contract in accordance with the provisions, if any, of the Contract. ii. Termination on account of Force Majeure: Either party may have the right to terminate the Contract on account of Force Majeure, as set forth in Clauses mentioned in this RfP.
35	14. Termination of contract due to event of default by Agency	v.Upon occurrence of a material breach of the terms and conditions of the contract, SUDA/ULB/TIA, without prejudice to and notwithstanding any other consequences, be entitled to terminate the contract. <i>Explanation: The term 'material breach' shall include but not limited to a significant failure by the agency to fulfil their contractual obligations, violation of fundamental terms and conditions of the contract, failure by the agency to perform key obligations, etc.</i>
49	Section II - GENERAL CONDITIONS OF CONTRACT Environmental Compliance K. Environmental Compliance	The Agency shall obtain and maintain from time to time all necessary clearances from the WBPCB or any other similarly empowered Government Agency in respect of the Project (if applicable).



The Committee also recommended that –

- A. Concessionaire cannot cater to fresh waste and legacy waste concurrently, this point only applicable for integrated tenders.
- B. Payment shall be made only after proper disposal of different fractions from the site as per guideline of SWM Rule-2016 and current CPCB / SPCB guidelines issued for management and disposal of legacy waste.
- C. No payment shall be made after 2nd/3rd R/A bill without any test certificate of Moisture Content from National Test House / IIT / IEST / Jadavpur University or any other Govt. institute of repute within West Bengal, certificate for disposal of different fractions from end user and real time monitoring data etc. whatever be the penal clause or penalty made. The cost for the same shall be borne by the selected bidder.
- D. To process for payment, Checklist of the Report before Release of Payment for Bio-mining of Legacy Waste at Dumpsites as given in **Appendix-A** shall be submitted.
- E. Maximum period of RDF disposal as per SWM Rules, 2016 and CPCB guidelines shall be **30** days beyond which penalty shall be imposed as per the respective clause given in tender.
- F. For projects having quantity less than 1(one) lakh MT legacy waste, software for real time monitoring & web enabled CCTV camera will be provided from the end of TIA (if deemed necessary). Successful Bidder will have to maintain the real time monitoring & web enabled CCTV Cameras wherever remote monitoring is required. For projects having quantity more than 1 (one) lakh MT legacy waste, real time monitoring system & web enabled CCTVs are to be installed & maintained by the successful bidder. Real time monitoring system must be centrally operated.
- G. No **Power screen / Warrior** shall be allowed at any site.
- H. **Payment Breakup schedule:**

a. 50% payment (after necessary deduction as applicable) shall be released against 1st RA Bill only to maintain cash flow during execution, however no further payment shall be made if actual quantity of RDF generated has not been disposed from the site after 30 days from date of processing which shall not exceed the performance security / EMD submitted by the bidder at any point of time during the contract period.

b. Balance 50% payment (after necessary deduction as applicable) shall be released against 1st RA Bill after submission of documentary proof/evidence, certificates etc as per requirement.

c. 2nd and subsequent RA bill (after necessary deduction as applicable) will be paid after submission of documentary proof/evidence, certificates etc as per requirement.

- 2. The Committee noted that SUDA had floated tenders for engagement of agency for the project 'Disposal of 20 Lakh MT of legacy waste through Bio-mining and Bio-remediation process and reclamation of the land at two different locations at Pramodnagar and Kamarhati dump sites for Cluster – 1 Project under Swachh Bharat Mission/Mission Nirmal Bangla in West Bengal (2nd Call)'. During the period of evaluation of technical bids, SUDA had requested the participating bidders to submit the authentication of the required documents through e-Tender Portal. Subsequently, M/s People's Association For Total Help & Youth Applause (M/s PATHYA raised a complaint& M/s Greentech Environ Management Pvt. Ltd. placed two legal notices claiming demand of justice regarding the tenders. After threadbare discussion, the Committee recommended the following:

Sl. No.	Complaint/ legal notice/ demand of justice of the agency	Recommendation of SLTF
1	M/s People's Association For Total Help & Youth Applause (PATHYA) vide ref no- PATH/27/2024-25 dated-17.05.2024 had stated that the documents that was	The committee observed that all the prospective bidders were requested to submit the 3 (three) declarations namely, declaration with regard to arbitration, liquidated damage and blacklisting, in the

Sl. No.	Complaint/ legal notice/ demand of justice of the agency	Recommendation of SLTF
	sought on 15.05.2024 at e-Tender Portal should not be sought as these documents are out of rules/ guidelines with reference to memo no- 2320-F(Y) dated- 07.06.2022 of FD GoWB and, GoI manual for procurement of works (June,2022).	form of an affidavit duly signed and affirmed before the 1st class Judicial Magistrate in place of a self-declaration for authenticity to avoid future complications, if any. The committee recommended that documents that were sought on 15.05.2024 uploaded in the e-Tender Portal has been issued for authenticity to avoid future complications, if any/ in conformity with the existing terms and conditions/guidelines of the tendering policy.
2	M/s Greentech Environ Management Pvt. Ltd.: Smt. Parna Mukherjee, Advocate, High Court, Calcutta on behalf of M/s Greentech Environ Management Pvt. Ltd. and Vineeta Burman had send a legal notice/ demand of justice vide letter dated-24.05.2024 alleging inter-alia that technical corrigendum dated 11.03.2024 with regard to clause 5.2 of the tender document is arbitrary. Therefore, either the arbitrary criteria set out in the technical corrigendum dated 11.03.2024 and or NIT dated- 31.01.2024 with regard to Siliguri MC dumpsite and NIT dated 19.01.2024 with regard to Promodnagr Dumpsites may be withdrawn.	The committee observed that after opening the technical bid it revealed from documents submitted by prospective bidders that M/s Greentech Environ Management Pvt. Ltd has completed only 51.47 % [Quantity processed at Okhla up-to 04.12.2023 15.44 Lakh MT out of 30Lakh MT = $15.44/30 \times 100 = 51.47\%$] of the work in his ongoing project at Okhla. The committee recommended that it may be ratified the technical corrigendum dated 11.03.2024 has been issued in conformity with the existing terms and conditions/guidelines of the tendering policy.

3. The Committee recommended that the participating bidders for the tenders for engagement of agency for biomining and bioremediation of legacy waste for different ULBs, may be requested to deliver their presentation regarding their action plan for their eligible projects before the Committee in the next meeting which is as a part of the technical evaluation of the bids. Details of the participating bidders and their eligible projects are placed below:

SI No	Agency Name	Eligible Projects for which PPT to be presented before the Committee
1.	Eastern Organic Fertilizer Private Limited	Cluster 1, Burdwan, Midnapore, Siliguri MC, Behrampur, Durgapur MC, Bhadreswar and Naihati
2.	Greentech Environ Management Pvt. Ltd.	Burdwan, Midnapore, Behrampur, English Bazar and Old Malda, Durgapur MC, Bhadreswar, Purulia and Raghunathpur
3.	M/s D H Patel	Cluster 1
4.	National Federation of Farmers Procurement Processing & Retailing Co-operatives of India Ltd. (NACOF)	Cluster 1, Burdwan, Siliguri MC and Durgapur MC

5.	People's Association For Total Help & Youth Applause	Cluster 1, Burdwan, Midnapore, Siliguri MC, English Bazar and Old Malda, Behrampur, Durgapur MC, and Bhadreswar
6.	Aayushi Hygiene And Care Private Limited	Purulia and Raghunathpur, and Naihati
7.	Tansam Engineering And Construction Company	Cluster 1, Burdwan, Midnapore and, English Bazar and Old Malda
8.	Rohini Fire Safety Pvt. Ltd.	Burdwan, Midnapore, Behrampur, English Bazar and Old Malda, Bhadreswar and Naihati
9	Rajan Construction	Purulia and Raghunathpur

4. The Committee noted that KMDA has assessed the present quantity of legacy waste accumulated in the sites of Hooghly- Chinsura Municipality, Chandernagore Municipal Corporation and Panihati Municipality and observed that 1,02,158.50 MT present at HooghlyChinsurah Municipality, 1,06,252.29 MT present at Chandernagore Municipal Corporation and 1,20,172.00 MT present at Panihati Municipality. The Committee accepted the quantity and recommended to go for tender process for engagement of agency for biomining and bioremediation of legacy waste for these 3 (three) ULBs.
5. As per direction of the SLTF, a Standard Operating Procedure (SOP) for monitoring of biomining and bioremediation of legacy waste and billing process has been drafted and placed before the Committee. The Committee appraised the same and recommended to notify the same. The final SOP is placed at **Annexure-I**.
6. Lack of proper monitoring on the legacy waste processing agencies have been observed by the Committee due to lack of deployment of captive manpower from the end of SUDA/KMDA at the legacy waste processing sites. Realizing the fact the Committee recommended to deploy captive manpower in each site for three shifts. The Committee further recommended that to check the quality of biomining and bioremediation process maintaining all rules and regulations and environmental protections, a third party monitoring organization may be engaged for each site. An institute of repute may be engaged for this purpose.
7. The Committee noted that the Technical Sub-Committee for SWM/ LWM vehicles under SLTF in their 6th meeting held on 3rd June, 2024 recommended the technical specifications of Dumper Placer Vehicle 7.0 cum and 700 kg lifting capacity LCV Truck Mounted Dead Body Cattle Catcher. The committee accepted the same and recommended to circulate the same to all concerned. The final specifications are placed at **Annexure-II & Annexure-III**.
8. The Committee noted that the ULB wise schemes/ estimates for sanction of fund for infrastructure works placed at **Annexure-IV** and recommended the schemes to be taken up for further action. The Committee recommended SUDA to take up for issuing approval.

With no other issue for discussion the meeting ended with vote of thanks to and from the chair.



(Supriya Ghosal)

Director, SUDA

Annexure-I

SoP for Monitoring of Biomining and Bioremediation of Legacy Waste and Billing Process

1. Initial survey shall be done to ascertain the quantum of total legacy waste through drone/total station survey.
2. Windrow Formation shall be ensured.
3. Monitoring the temperature and moisture content at regular interval.
4. After achieving the required temperature and moisture content, the waste shall be processed.
5. Weighing should be done according to the per day capacity of the trommel installed. No weighted legacy waste should be stacked unprocessed at site for 24 hours.
6. Calibration of weigh-bridge shall be done from the appropriate authority prior to weighment begins and shall be renewed whenever required.
7. Real-time monitoring system shall be installed with CCTV position at all critical locations and also at Weigh Bridge to ensure monitoring automatic weightment as well as GPS photograph of the vehicle (top view – to access the type of material & view of vehicle number plate).
8. After processing, the fractions are disposed to the end users in compliance with the SWM Rules 2016.
9. Stacking of fractions at site more than 15 days from its generation shall not be allowed.
10. The fractions are to be weighted at weighbridge automatically with real time monitoring system. Without weighment no incoming waste materials and its outgoing processed fractions should be transported from the project site.
11. Testing of the fractions, leachate, air quality, ground water quality etc. shall be done on regular interval and also submission of these reports shall be ensured on quarterly basis.
12. For fraction disposal, receiving of challan of each vehicle by the end user at destination point shall be ensured.
13. Deployment of manpower at the legacy waste operational plant for monitoring of day to day processing activities of legacy waste and its fraction disposal. Manpower should have minimum qualification with (10+2) standard pass along with basic computer knowledge on MS Office.
14. The scope of work of the deployed manpower are as follows :
 - For recording of weighment during in-grace and e-grace at the weigh bridge point and other allied activities. The weighment of the incoming legacy waste at the weigh bridge to be monitored and recorded regularly.
 - The weighment of outgoing fractions (RDF, Good earth, coarse fraction, inert, etc.) to be monitored and recorded regularly.
 - Activities related to waste processing at plant to be monitored both physically as well through real time monitoring system installed at control room.
 - To share information to SUDA and ULB about the day to day activities at site including the weighment data regularly.

The manpower to be engaged in 3 shifts in the follows manner:

1st shift: 7:00 AM to 2:00 PM

2nd shift: 2:00 PM to 9:00 PM

3rd shift (Night Shift): 9:00 PM to 6:00 AM next day

4 Nos. manpower will be required in three shifts with a weekly day off for each one and in duty rostering mode. They will be provided all safety gear (like gumboot, hand gloves, torch for night shift, musk, sanitizer etc.) to work at dumpsite safely. They will also be provided with Uniform and Identity Card.

15. All the measurements shall be verified by the concerned ULB authority as per agreement.
16. Weighment recording software integrated with weighbridge and CCTV shall be installed. The data entry operator shall not have any access to edit any data already entered and saved. Only admin should have that permission. No payment shall be made without the abovementioned system.

17. Bills with the following documents shall be submitted at regular interval after confirming the disposal of all the fractions obtained from processed Legacy Waste.
- a. Initial survey Report.
 - b. Valid calibration certificate of the weigh-bridge.
 - c. Log sheet of temperature and moisture content.
 - d. Total Weighment Sheets of all processed fractions and Input of raw legacy waste.
 - e. Summarized weighment sheet for each processed fractions and Input of raw legacy waste.
 - f. Mass Balance report.
 - g. End user certificate.
 - h. Vehicle-wise / Individual receiving of the end user.
 - i. Test Reports of the fractions, leachate, air quality, ground water quality etc.
 - j. Intermediate / Final survey report to ascertain the quantum of total legacy waste processed and land reclaimed. (if necessary as per tender norms).
 - k. Invoice copy.
 - l. Soft copy of all above documents along with the captured CCTV footage & real time monitoring record are to be submitted.

Annexure - III

TECHNICAL SPECIFICATION OF 700 KG LIFTING CAPACITY LCV TRUCK MOUNTED DEAD BODY CATTLE CATCHER

DESCRIPTION :-

The CGECCDB-0.7CuM is Truck Chassis Mounted Rear Loading Cattle Catcher Capable Of Lifting Suitably Dead Body Animal And Transporting Them To Designated Sites. The CGECCDB-0.7CuM Has Self Loading And Unloading Features. It Will Position Itself Near And Along Rear The Dead Body Animal And Extend The Boom Hydraulically For Picking Up The Body. The Main Structure Of The Equipment is Very Rigid And Robust In Construction Suitable For Such Heavy Duty Application, We Offer Dead Body/Cadavers Cattle Catcher Vehicle, Which is All Around Intended For Animal Pickups And Transportation and unloading hydraulically. The Animal Catcher Vehicle is Perfect For Cautious Transportation Of Stray Dead Body.

DEAD BODY CATTLE CATCHER:-

The CGECCDB-0.7CuM shall consist of 2 lift arms (boom) actuated by two (one for each arm) double action hydraulic rams to easy Lifting, Mounting and unloading of Animal Cadavers.

HYDRAULIC SYSTEM :-

Hydraulic system of the equipment includes reservoir, spool control valve with relief and flow regulator, lock valve, safety devices and all necessary piping etc.

Pump	:	PTO pump wipro/Dowty make.
Pressure	:	Max. operating pressure Approx. 10 bar
Control valve	:	Two spool DC type with built in relief.
Hydraulic Cylinders	:	2 nos. double acting for boom arms.
Hydraulic Tank	:	50 Ltrs capacity with accessories like filler-cum breather, level gauge, line isolator valve and drain plug.

MOUNTING:-

The complete equipment will be mounted on a 4 Ton GVW, Vehicle chassis having an output rating of around 98 hp and minimum wheelbase of 2955mm.

SUGGESTED MODEL:-

TATA 407 Gold BSVI

PAINT:-

Both the exterior and interior surfaces of the equipment will be thoroughly sanded prior to spray painting.

FEATURES:-

- The equipment's exterior will be spray-painted with two coats of superior quality anti-corrosive primer and two coats of enamel metal paint of a reputed make. The colour shade will be that of your choice.
- Animal Catcher, also referred as Skip Loader is utilised for collecting, transporting the garbage Dead Body Animal at the preferred location (dumping yard).
- The single Animal Type offered for the application is capable of handling (loading, transporting, unloading & tipping) 1 Animal of 700Kg Approx volume capacity.
- The unit has one pair of steel boom arms linked through a tie-rod, that move about the hinged axis on the chassis, to load and unload the bin, filled with waste material.
- The loading and unloading of the Animal is done by the reverse and forward movements of the hydraulic cylinders connected to arms.
- The unit has the tipping / tilting capability, for Unloading Animal at the desired location.

- A set of rear guides each are provided to facilitate the smooth entry of the Animal while loading it on to the bed-frame platform.
- Engaging / disengaging of the vehicle PTO is performed in rear the cabin. Other controls / operating levers are also provided out rear the cabin at a convenient location, for easy operations



Recommended
[Signature]

Approved
[Signature]
Motor Vehicle In-Charge
Panipat Municipality

[Signature]
Motor Vehicle In-Charge
Panipat Municipality

Annexure - II

TECHNICAL SPECIFICATION OF DUMPER PLACER VEHICLE 7.0 Cu. M

A) GENERAL:

The Dumper Placer shall be useful for transportation of refuse, silt, grit or any other waste from the collection point to its disposal point. The operation of lifting and placing the container on the vehicle, transporting to its disposal point and unloading shall be hydraulic. The lifting capacity of steel garbage container / bin shall be appropriately designed. The equipment shall be operated hydraulically.

The operations of this unit shall be such that one driver assisted by one helper shall be adequate.

The unit shall consist of:

- a) Prime mover -- engine of the chassis shall be used for driving other unit through appropriate power take-off unit (PTO).
- b) Frame
- c) Lifting arms
- d) Tipping hooks
- e) Stabilizer
- f) Hydraulic system
- g) Controls
- h) Accessories
- i) Suitable Indian Vehicle Chassis

The above equipment shall be mounted on chassis like TATA/ASHOK Leyland Eicher or equivalent. Bidder shall furnish full details of vehicle chassis. Bidder shall also make arrangements to procure the vehicle with cabin from the manufacturer. The standard tools accessories and spares supplied with the chassis shall be handed over to the client at the time of delivery of the unit.

The Bidder shall make arrangements for mounting equipment on the chassis according to the rules laid down by the Regional Transport Office, and loads recommended by the chassis manufacturer on the front and rear axles.

B) DUMPER PLACER EQUIPMENT:

The unit comprises of a pair of lift arms actuated by double acting high pressure cylinders, hydraulically operated tipping hooks for operation of lifting, lowering and unloading of garbage container / bin, one double acting independently operated hydraulic stabilizer, oil tank, and control valves. The components are to be mounted on all steel welded sub- frames.

Unit shall conform to the best practice known to the body fabrication trade in design, quality of material and workmanship. Assemblies, subassemblies, components and accessories shall be standard and interchangeable.

Unit shall be rear-Loading type with loading height as per RTO. The operation of lifting, lowering and unloading of garbage container bin shall be hydraulic system. The system shall include the hydraulic pump, driven by the chassis engine, necessary filter, adjustable relief valves, directional control valves, restriction valves and associated pipelines. The chain links shall be provided for lifting, lowering, unloading and holding the container.

a) PRIME MOVER:-

The unit shall be run on the power transmitted from vehicle engine through its P.T.O. (Power Take off Unit). The P.T.O. shall be of sturdy design of reputed make and should be able to provide sufficient power to run the system.

b) FRAME:-

The main frame shall be made out of suitability thick pressed steel channels and mounted on the vehicle chassis through rolled / pressed steel channel sub frame.

c) LIFTING ARMS:-

The lifting arms shall be of strong design made out of suitability thick steel box tube to withstand the operating load and shall be connected at ends through suitable bush

bearing joint. The distance between the lift arm and container, when the container is resting on the body shall be properly designed.

d) TIPPING HOOKS:-

Hydraulically operated tipping hooks shall be provided with proper space for easy and correct holding of the container for tipping purposes. All the pivot pins are to be high chromium plated and in jig bored holes with easy lubrication points to ensure accurate alignment and smooth operation. The chain links provided for lifting and holding the container shall be strong enough.

e) STABILISER:-

The hydraulically operated stabilizer shall be designed in such a way to suit the requirement of Waste Management. The stabilizer shall be strong enough to provide continued stability and should not take undue time. The stabilizing should have locking arrangement so that no malfunction operation is possible.

f) HYDRAULIC SYSTEM:-

1. The hydraulic pump shall be designed to operate continuously with peak loading at frequent and short interval.
2. The hydraulic system shall incorporate relief valves to protect all components from excessive pressure and overloads.
3. Hydraulic seamless pipes, hoses, couplings should be of high quality and standard to withstand high pressures. The pipe ends should be flared to ensure perfect seal and prevent leakage even at high pressure.
4. A replaceable filter should be provided in return line of hydraulic system.
5. All hydraulic components should be easily accessible for inspection.

HYDRAULIC VALVES:-

The valves provided shall be of reputed make and of international standard and should be appropriately designed.

HYDRAULIC CYLINDERS:-

1. All cylinders must be tested at 1.5 times the rated working pressures.
2. Cylinder rods of all cylinders shall be constructed of high strength, hardened steel rods, centreless ground to an RMS smoothness rating of 8 and shall be hard chrome plated.
3. Where necessary, pin mounting connections of cylinders shall incorporate hardened spherical bushings on hardened pins.
4. The cylinders should be reputed make and should adhere to dimension given in technical schedule.

HYDRAULIC RESERVOIR AND FILTERS:-

The reservoir tank shall have 1.5 times capacity then the fluid required by the hydraulic system and includes a sight fluid level indicator, return line filter, suction line shut-off cock and filter cap with chain.

CONTROLS:-

The following controls shall be provided and located conveniently

1. Power take-off control shall be provided inside the cabin by the chassis manufacturer.
2. Hydraulic control valve lever for lifting arm.
3. Hydraulic control valve lever for stabilizer.

ACCESSORIES:-

- i. Reverse audio visual horn – 1 No.
- ii. Mud guards – 2 Nos.
- iii. Mud flaps – 4 Nos.
- iv. Aluminium chequered plate lockable tool box – 1 No.

VEHICLE CHASSIS:-

The complete equipment shall be mounted on a suitable chassis with standard day cabin and PTO (Ashok Leyland TATA/Eicher). The chassis should be provided with front and rear shock absorbers with five forward and one reverse constant mesh gear box, complete original front show with headlights, starter, dynamo with batteries and fuel tank.

PAINTING:-

The entire unit shall be painted with two coats of superior quality anti-corrosive primer with two coats of approved quality paint. The bidder shall get the paints and shades pre-approved from the Authority.

S.No.	Technical Description
1	GVW of Chassis must not less than 14 tonne. Wheel base of chassis should be approx 3600 mm. Capacity of Engine should be 125 HP (Minimum). Torque should be 420 Nm (Approx) Size of Tyre must not less than 1000 x 20. Number of tyre should be 07 including spare Tyre. Diesel Engine should be BS VI. Chassis should contain Driver Cabin and Heavy Duty PTO with Hydraulic Pump
2	Lifting Mechanism It will be work on hydraulic system power will be taken gear box through power take off. The skip lifter will be mounted on mobile truck chassis with hydraulic operating hoisting mechanism to handle detachable containers. The system will be comprise of lifting arms. Quick release chain hydraulic gear pump, two hydraulic lift cylinders. (Outer dia of hydraulic jack cylinder min. 150mm) and Two hydraulic operated independent stabilizer cylinders, all welded on steel sub frame. The system will be suitable for handling 7.0 CuM capacity container. # Lifting capacity 7MT at minimum and 5MT at maximum reach of the arms. # Standard weight of Lifting Arrangement should be 2MT. # Operation time of Lifting arrangements should be mentioned as : 1. Pickup time 50s approx. 2. Unloading time 40s approx. 3. Jack Leg out in 5s approx. 4. Telescopic Arm out in 10s 5. Working Pressure 190bar approx. 6. Material High Tensile Strength MS Safety Devices in the Hydraulic System 1. Overload protection valve 2. Audiovisual sequential control system to ensure that the operator follows

	correct sequence to operate the unit, otherwise the system would not operate.
	3. Lock Valves to be provided to prevent accidents in the events of hydraulic failure.
	4. A pairs of Stabilizers will be provided to prevent overload on rear axle during operation.

Technical data	Dumper Placer Vehicles
Applications	Single Container
Chassis – Payload	14000-15000KG
Container Capacity	7-8 m ³ (Single Bin)
Safety Features	Check Valves Overload Protection Valves
Drive	Thru PTO

SPECIAL DIRECTION TO THE BIDDERS

1. The work involves fabrication, erection, supply and commissioning of Dumper Placer Vehicles of minimum 7.0Cu.m capacity mounted on suitable Chassis to be supplied by Bidder, as per specifications attached.
2. These specifications only show the requirement briefly each bidder shall attach descriptive literature along with a detailed description of the machine covering all the salient features.
3. The machine shall have mechanized container loader system operated hydraulically.
4. The Dumper Placer Vehicles shall be built to with stand the strength and vibration of the roads as well as those at landfill site. The bidders are requested to see landfill site in order to ensure the conditions under which the vehicles are expected to operate.
5. All moving parts shall be provided with adequate means of lubrication by providing nipples etc. All reciprocating parts shall be suitably guarded.
6. The equipment shall be capable of being operated under average conditions for at least 16 hrs. Continuously without any ill effects on its component
7. The Dumper Placer Vehicles will meet the requirement of prevalent Motor vehicle Act with Emission norms prescribed by R.T.O.
8. The bidder will have to give the demonstration of the Dumper Placer Vehicles offered whenever called for by the department
9. The bidder shall offer the equipment components of the makes stated in the specifications. If any deviation is made the tender is likely to be rejected. However, imported components shall be approved by principals and international organization with certificates.
10. Every part of the equipment including rubber hoses shall be guaranteed for a

period of one year.

11. It will be the responsibility of the bidder to collect the chassis from the regional sales office of the manufacturer or their authorized dealer and transport the same to their workshop.
12. It will be the responsibility of the bidder to deliver the vehicle after the completion of the fabrication of the Dumper Placer Vehicles equipment.
13. The vehicle should at least have capacity to work 16 hours continuously without any break per day.

Recommended


Approved

Motor Vehicle In-Charge
Panipati Municipality


Motor Vehicles In-Charge
Bazra Municipality

Annexure-IV

List of Schemes for infrastructure works of different ULBs for SWM

Sl.No	ULB	Name of scheme	Amount (in Rs.)
1	Bankura	Renovation of existing damaged boundary wall at Kesra solid waste management processing ground within Bankura Municipality.	3260455
2	Coochbehar	Construction of boundary wall (2nd phase) at dumping ground under Coochbehar Municipality.	39658198
3	Raigunj	Development of R.C.C concrete road from bandar crematorium tp towards south , Bandar sluice gate over kulik dumping ground area under infrastructure scheme of SWM within Raigunj Municipality	9642405
4	Domkol	Construction of boundary wall (Length 480.2mtr) at ward No- 18	4938215
5	Domkol	Construction of Approach road (Bituminous) at Ward No - 18 (Lenght 1122 mtr)	9834760
6	Domkol	Improvement of Approach road (Bituminous) at Ward No - 18	5606380
7	Champdany	CONSTRUCTION OF G.I.SHED FOR PARKING OF SWM VEHICLES AT R 8 S ROAD NEAR D V C CANAL IN WARD-NO 10 of Champdany Municipality	39,48,350.00
8	Englishbazer	Hightening of boundary wall for Solid Waste Management scheme at Kanchantar Khasimari, Mouza- Fulbari Araj Within Englishbazer Municipality	13,01,300.00
9	Englishbazer	Construction of concrete block road from Mahadipur main road to SWM dumping ground approach road with pond side RCC retaining wall for Solid Waste Management scheme at Kanchantar Khasimari, Mouza- Fulbari Araj Within Englishbazer Municipality	73,94,877.00

Appendix-A

Appendix-A (Site Monitoring Report Format)

DAILY SITE MONITORING REPORT BY THE KMDA AND MUNICIPALITY

- 1) Name of Urban Local Body (ULB) :
- 2) Name/Location of dump site :
- 3) Date of inspection :
- 4) Inspected by (name of the officer, entrusted by the municipality/nodal officer) :

FORMAT – A1:

LOG SHEET FOR RECORDING TEMPERATURE, MOISTURE CONTENT, PH ETC.

Windrow Sl. No.	Windrow Formation Date	Windrow Size	Age of Windrow	Windrow Turning Day	Temperature		Moisture Content	pH Value	Remarks
					9:00 AM	4:00 PM			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

FORMAT – A2:

LOG SHEET FOR RECORDING WEIGHT OF INPUT LEGACY WASTE

Trip Sl. No.	Date	Time	Vehicle No.	Vehicle Type	Type of material	Gross tare weight (kg)	Empty tare weight (kg)	Net weight (kg) (7) – (8)	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

Dated Signature of
The Nodal Officer

Municipality/Municipal Corporation/Notified Area Authority