

AGRA MUNICIPAL CORPORATION



Near Sur Sadan, M.G. Road Agra (U.P.) – 282002

Website: www.nagarnigamagra.com

Email: - amcagra1@gmail.com

Ref. No:

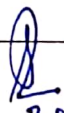
Dated: 30/11/2021

INVITATION OF TENDER

Agra Municipal Corporation invites online Technical and Financial Bids from eligible bidders to undertake “Mobile FSSM Through Septage De-Watering Vehicles & Lime Stabilization Unit Along With its Operation & Maintenance for 2 (Two) Years in Agra Under Swachh Bharat Mission (Urban), Uttar Pradesh”

For detailed scope of work and tender conditions, prospective bidders may refer to RFP which can be downloaded from the web portal: <https://etender.up.nic.in> / AMC website: <https://nagarnigamagra.com>

Date of Publishing of Bid	01/12/2021
Bid Document Download Date	01/12/2021
Last Date and Time of Submission of Bid (Online)	22/12/2021 till 5:00 PM
Technical Bid Opening Date and Time	24/12/2021 at 2:00 PM
Financial Bid Opening Date	27/12/2021
Cost of Tender Document (Non-Refundable)	Rs. 11,800/- (Rs. Eleven Thousand Eight Hundred Only including GST)
Earnest Money Deposit (EMD)	Rs. 6.50 Lakhs/- (Rs. Six Lakhs and Fifty Thousand only)
Bid Validity	180 days
Contact Person for any Clarification	Executive Engineer (Nodal SBM) 9319406016


30.11.21
Municipal Commissioner

Copy to,

1. In-Charge Advertisement for publication in Newspapers.


Municipal Commissioner



Request for Proposal

For

Mobile FSSM through Septage Dewatering Vehicles & Lime Stabilization Unit along with its operation & maintenance for 2 (Two) years in Agra under Swachh Bharat Mission (Urban), Uttar Pradesh.



Agra Nagar Nigam
Near Soorsadan, M.G. Road,
Sanjay Place, Agra – 282002,
Uttar Pradesh, India.
E-mail: - amcagra1@gmail.com

RFP No. :
Issued on :

RFP Title

Tender Details:	
Name of Work	Mobile FSSM through Septage Dewatering Vehicles & Lime Stabilization Unit along with its operation & maintenance for 2 (Two) years in Agra
Bid Issuing Authority	Agra Nagar Nigam
Date of Issue/ Publication	01/12/2021
Bid Document Cost	Rs. 11800/- (including GST) is to be deposited by online mode only in the form of DD/RTGS / NEFT, in Favour of Municipal Commissioner, Agra. Account No. – 38120131718 Branch – Nagar Mahapalika, Agra IFSC Code – SBIN0003707 Note :- Original DD has to be submitted in Room No. 225, office of Executive Engineer, Agra Municipal Corporation before last date of tender submission.
Bid Security (Earnest Money)	Rs.6,50,000/- (Six Lakhs Fifty Thousand Only), in the form of NEFT/RTGS/FDR/TDR/BG in Nationalized/Scheduled Bank in India in Favour of Municipal Commissioner , Agra. Account No. – 38120131718 Branch – Nagar Mahapalika, Agra IFSC Code – SBIN0003707 Note :- Original NEFT/RTGS/FDR/TDR/BG has to be submitted in Room No. 225, office of Executive Engineer, Agra Municipal Corporation before last date of tender submission.
Account Details for Bid Document Cost and EMD Submission	Nagar Nigam Agra State Bank of India A/C 38120131718 IFSC Code: SBIN0003707
Performance Guarantee	CAPEX Performance Guarantee: Submission of PBG through BG/FDR deposit to be deposited before signing of the contract post Lol. There is 5% performance guarantee of the total CAPEX cost (vehicle cost) valid for 30 days post completion of 12 months defect liability period). OPEX Performance Guarantee: Submission of PBG at through BG/FDR deposit at the time of delivery of vehicle post signing of the contract for the amount equalling 5% of annual O&M cost to be renewed every 12-month valid till after 30 days of contract completion.
Pre-Bid Meeting Date	NA
Due Date of Bid Submission	22/12/2021 5.00 P.M
Time and Date of Technical Bid Opening	24/12/2021, 2.00 p.m. at Nagar Nigam Agra
Validity of the Bid	180 days from the bid due date
Undertaking the work	Within 21 days of works order, Vehicle deployment time with complete body works / vehicle fabrication post completion of chassis inspection, within 120 days.
Duration of Contact/ Work	2 years or 6,000 services per vehicle (specified in scope of

	work) whichever is earlier. The same is subject to extension given satisfactory performance of the bidder and subject to applicable cost escalation as per mutual consent of bidder and authority.
--	--

DISCLAIMER

The information contained in this Request for Proposal document ("RFP document) or subsequently provided to Applicant(s), whether verbally or in documentary or in any other form, by or on behalf of Nagar Nigam Agra(hereafter referred to as "Authority") or any of its employees or advisors, is provided to the Applicant(s) on the terms and conditions set out in this RFP document and all other terms and conditions subject to which such information is provided in writing.

This RFP document is intended to be and is hereby issued only to the prospective Applicants. The purpose of this RFP document is to provide the Applicant(s) with information to assist the formulation of their Proposals. This RFP document does not purport to contain all the information that each Applicant may require. This RFP document may not be appropriate for all persons, and it is not possible for the Authority, its employees or advisors to consider the investment objectives, financial situation and particular needs of each Applicant who reads or uses this RFP document. The assumptions, assessments, statements, and information contained in the RFP document may not be complete, accurate, adequate or correct. Each Applicant 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 document and where necessary obtain independent advice from appropriate sources. The Authority, its employees and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, adequacy, correctness, reliability or completeness of the RFP document.

Information provided in this RFP document to the Applicant(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. The Authority accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

The Authority, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Applicant 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 document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP document and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP document or arising in any way for participation.

The Authority also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Applicant upon the statements contained in this RFP document.

The Authority 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 document before the last date of bid submission.

The issue of this RFP document does not imply that the Authority is bound to select an Applicant or to appoint the selected Applicant or Operators, as the case may be, for the Project and the Authority reserves the right to reject all or any of the Applicants or Bids without assigning any reason whatsoever.

The Applicant 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 Authority or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Applicant and the Authority shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

TABLE OF CONTENTS

DISCLAIMER	4
SECTION 1. LETTER OF INTENT	7
SECTION 2: INSTRUCTIONS TO BIDDERS	8
2.1 Definitions.....	8
2.2 Details.....	8
2.3 Clarification and Amendment of RFP Documents.....	9
2.4 Proposal Validity.....	9
2.5 Preparation of Proposals.....	9
2.6 Taxes.....	10
2.7 Currency.....	10
2.8 Earnest Money Deposit (EMD) and Bid Processing Fees.....	10
2.9 Bid Processing Fees.....	11
2.10 Pre-Bid Meeting:.....	11
2.11 Submission, Receipt and Opening of Proposal.....	11
2.12 Proposal Evaluation.....	12
2.13 Award of Contract.....	13
2.14 Confidentiality.....	13
2.15 JV/Consortium.....	13
2.16 Important Directions.....	13
SECTION 3: TERMS OF REFERENCE	23
SECTION 4: PROJECT INFORMATION MEMORANDUM	41
SECTION 5: TECHNICAL PROPOSAL – STANDARD FORMS	43
FORM TECH-1.....	43
FORM TECH-2.....	44
FORM TECH-3.....	47
FORM TECH-4.....	48
SECTION 5: FINANCIAL PROPOSAL – STANDARD FORMS	50

Section 1. Letter of Intent

The Nagar Nigam Agra is inviting Request for Proposal for supply of septage dewatering vehicles and lime stabilization unit along with its operation and maintenance for two (2) years or 6000 services for Agra.

1. The detail of the services is provided in the Terms of Reference in this RFP document and qualification requirement is at Instructions to Bidders.
2. A firm will be selected under “**L1 Lowest cost-based selection**” (minimum qualifying technical score is 70%).
3. The RFP includes the following documents:

Section 1 - Letter of Intent

Section 2 - Instructions to Bidders

Section 3 - Terms of Reference

Section 4 - Technical Proposal - Standard Forms

Section 5 - Financial Proposal - Standard Forms

Section 6 - Standard Forms of Contract

Yours,

Municipal Commissioner,
Nagar Nigam Agra

Section 2: Instructions to Bidders

Part I

Standard

2.1 Definitions

- a) **“Addendum”** means the clarification issued against the bidder’s query placed before the employer in writing It may be released in form of addendum or corrigendum.
- b) **“Employer”** means the Authority who have invited the bids for the services and/ or with which the selected Bidder signs the Contract for the Services and to which the selected bidder shall provide services as per the terms and conditions and TOR of the contract.
- c) **“Bidder”** means any entity or associations of person or organization /companies / firms who have been requested to submit their proposals that may provide or provides the Services to the Employer under the Contract.
- d) **“Contract”** means the Contract signed by the Parties and all the attached documents listed in its Clause, that is the General Conditions (GC), the project Specific Conditions (SC), and the Appendices.
- e) **“Project specific information”** means such part of the Instructions to Bidders used to reflect specific project and assignment conditions.
- f) **“Day”** means calendar day.
- g) **“Government”** means (Authority)Nagar Nigam Agra
- h) **“Instructions to Bidders”** means the document which provides Bidders with all information needed to prepare their proposals.
- i) **“Lol”** means the Letter of Intent being sent by the Employer to the bidders.
- j) **“Proposal”** means the Technical Proposal and the Financial Proposal.
- k) **“RFP”** means the Request for Proposal prepared by the Employer for the selection of Bidders, based on the SRFP.
- l) **“SRFP”** means the Standard Request for Proposals, which must be used by the Employer as a guide for the preparation of the RFP.
- m) **“Assignment / job”** means the work to be performed by the Bidder pursuant to the Contract.
- n) **“Terms of Reference” (ToR)** means the document included in the RFP as Section 5 which explains the objectives, scope of work, activities, tasks to be performed, respective responsibilities of the Employer and the Bidder, and expected results and deliverables of the job.
- o) **“GoUP”** means Government of Uttar Pradesh.
- p) **“3rdParty”** means Company/ Agency who would be responsible for monitoring the assets and work performance.
- q) **SBM(U)** means Swachh Bharat Mission (Urban)
- r) **Authority** means Nagar Nigam Agra / Agra Nagar Nigam

2.2 Details

- 2.2.1 The Employer will select the Bidder meeting basic eligibility criteria as mentioned in document and in accordance with the method of selection specified in the document.

- 2.2.2 Detailed scope of the assignment/ job has been described in the document.
- 2.2.3 The date, time and address for submission of the proposals has been given.
- 2.2.4 Bidders should familiarize themselves with Local conditions and take them into account in preparing their Proposals. To obtain first-hand information on the Assignment/ job and Local conditions, the bidder may undertake physical survey of the ULB/s.
- 2.2.5 The Employer will provide at no cost to the Bidders the inputs and facilities specified in the document, assist the bidders in obtaining licenses and permits needed to carry out the Assignment/ job, and make available relevant project data and reports.
- 2.2.6 Bidders shall bear all costs associated with the preparation and submission of their proposals. The Employer is not bound to accept any proposal and reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Bidders.

2.3 Clarification and Amendment of RFP Documents

- 2.3.1 Bidders may request a clarification on any clause of the RFP documents. Any request for clarification must be sent by standard electronic means to the Employer's address indicated and within the timeframe mentioned in the Data Sheet. Should the Employer deem it necessary to amend the RFP as a result of a clarification, it shall do so following the procedure under para. 2.3.2 below.
- 2.3.2 At any time before the submission of Proposals, the Employer may amend the RFP by issuing an addendum by standard electronic means. The addendum shall be sent to all Bidders as per stipulated timeframe mentioned in the Data Sheet and will be binding on them. Bidders shall acknowledge receipt of all amendments. To give Bidders reasonable time in which to take an amendment into account in their Proposals the Employer may, if the amendment is substantial, extend the deadline for the submission of Proposals.

2.4 Proposal Validity

- 2.4.1 Proposal validity to be set at 180 Days from date of submission of bid.

2.5 Preparation of Proposals

- 2.5.1 The Proposal as well as all related correspondence exchanged by the Bidders and the Employer, shall be written in English language, unless specified otherwise.
- 2.5.2 In preparing their Proposal, Bidders are expected to examine in detail the documents comprising the RFP. Material deficiencies in providing the information requested may result in rejection of a Proposal.

- 2.5.3 While preparing the Technical Proposal, Bidders must give particular attention to the following:
- 2.5.4 Depending on the nature of the Assignment/ job, Bidders are required to submit a Technical Proposal (TP) in forms provided in the RFP. Submission of non-responsive Technical Proposal will result in the Proposal being deemed ineligible. Form Tech – I is a sample letter of technical proposal which is to be submitted along with the technical proposal.
- 2.5.5 The **Technical Proposal** shall not include any financial information. A Technical Proposal containing financial information may be declared as non-responsive.
- 2.5.6 **Financial Proposals:** The Financial Proposal shall be prepared using the attached Standard Forms. It shall list all costs associated with the Assignment/ job. If appropriate, these costs should be broken down by activity and timeline, if appropriate, into foreign (if applicable) and domestic expenditures. The financial proposal shall not include any conditions attached to it and any such conditional financial proposal shall be rejected summarily.

2.6 Taxes

- 2.6.1 The bidder has to quote the bid excluding any GST. The GST at any given time if fluctuate, the same shall be applicable to the authority at prevalent rates.

2.7 Currency

- 2.7.1 Bidders must express the price of their Assignment/ job in India Rupees (₹).

2.8 Earnest Money Deposit (EMD) and Bid Processing Fees

2.8.1 Earnest Money Deposit

- The Applicant shall deposit an Earnest Money Deposit (**EMD**) of **INR 6,50,000/-(six lakh fifty thousand)** in accordance with the provisions of this RFP document. The Applicant has to provide the EMD in favour of Nagar Nigam Agra”.
- Proposals not accompanied by EMD shall be rejected as non-responsive (Bidders need to attach the scan copy of payment made details for NEFT/RTGS/DD/BG at the time of online technical submission). In case payment made through DD bidder need to courier/mail the original DD to Nagar Nigam office within 7 days of online bid submission end date.
- No interest shall be payable by the Employer for the sum deposited as earnest money deposit.
- The EMD of the unsuccessful bidders would be returned within 30 days after acceptance of LoA by the selected bidder.

- 2.8.2 The EMD shall be forfeited by the Employer in the following events:

- If Proposal is withdrawn during the validity period or any extension agreed by the bidder thereof.
- If the Proposal is varied or modified in a manner not acceptable to the Employer after opening of Proposal during the validity period or any extension thereof.
- If the bidder tries to influence the evaluation process.
- If the bidder withdraws their proposal post signing of the LoA till the time project is completed.

2.9 Bid Processing Fees

2.9.1 All bidders are required to pay **Rs11800/- including GST** in favour of the Employer through online payment (NEFT/RTGS). The Bid Processing Fee is Non-Refundable. Non-submission of Bid Processing fee along with the Technical Proposal will be treated as non-responsive bid.

2.10 Pre-Bid Meeting:

2.10.1 NA

2.11 Submission, Receipt and Opening of Proposal

2.11.1 The original proposal, both technical and Financial Proposals shall contain no interlineations or overwriting, except as necessary to correct errors made by the Bidders themselves. The person who signed the proposal must initial such corrections. Submission letters for both Technical and Financial Proposals should respectively be in the format of TECH-1, and FIN-1.

2.11.2 An authorized representative of the Bidders shall initial all pages of the original Technical and Financial Proposals. The authorization shall be in the form of a written power of attorney accompanying the Proposal or in any other form demonstrating that the representative has been duly authorized to sign.

2.11.3 Applicant (authorized signatory) shall submit its offer for preliminary qualification, technical and financial proposal e-procurement system. However, Tender Document Fees, and Earnest Money Deposit (EMD) should be deposited as per details provided in the bid document. The bid document complete in all respect is to be submitted on or before the time of last date of submission of bid through e-procurement system. The Authority will not be responsible for delay in submission due to any reason.

2.11.4 The Bid shall be typed or written in indelible ink and signed by the authorized signatory of the Applicant who shall also initial each page, in blue ink. All the alterations, omissions, additions or any other amendments made to the Bid shall be initialled by the person(s) signing the Bid. Bidder shall submit their offer only in online electronic format both for technical and financial proposal and all documents should be digitally signed. However, scan /screenshot of transfer of Proposal fees, EMD and all original papers related to Bank guarantee, power of

attorney etc. as mentioned in Table and should be uploaded along with the technical bid.

2.12 Proposal Evaluation

- 2.12.1 From the time the Proposals are opened to the time the Contract is awarded, the Bidders should not contact the Employer on any matter related to its Technical and/or Financial Proposal. Any effort by Bidders to influence the Employer in the examination, evaluation, ranking of Proposals, and recommendation for award of Contract may result in the rejection of the Bidders' Proposal.
- 2.12.2 The employer has constituted a Bidder Selection Committee (BSC) which will carry out the entire evaluation process.
- 2.12.3 **Evaluation of Technical Proposals:** BSC while evaluating the Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded, and the competent authority accepts the recommendation.
- 2.12.4 The BSC shall evaluate the Technical Proposals based on their responsiveness to the Terms of Reference and by applying the evaluation criteria, sub-criteria specified in the Data sheet. In the first stage of evaluation, a Proposal shall be rejected if it is found deficient as per the requirement indicated in the Data sheet for responsiveness of the proposal. Only responsive proposals shall be further taken up for evaluation. Evaluation of the technical proposal will start first and at this stage the financial bid (proposal) will remain unopened. The qualification of the bidder and the evaluation criteria for the technical proposal shall be as defined in the Data sheet.
- 2.12.5 Public opening & evaluation of the Financial Proposals: Financial proposals of only those firms who are technically qualified shall be opened publicly on the date & time specified the Data sheet, in the presence of the Bidders' representatives who choose to attend. The name of the Bidders, their technical score (if required) and their financial proposal shall be read aloud.
- 2.12.6 The BSC will correct any computational errors. When correcting computational errors, in case of discrepancy between a partial amount and the total amount, or between word and figures, the former will prevail for both the cases. In addition to the above corrections the items described in the Technical Proposal but not priced, shall be assumed to be included in the prices of other activities or items.
- 2.12.7 After opening of financial proposals, appropriate selection method shall be applied to determine the bidder who will be declared winner and be eligible for award of the contract. The methods of selections are described in the RFP document [The employer shall mention here which method out of all listed method shall be applied for selection of bidder for this assignment / job].

2.13 Award of Contract

- 2.13.1 The Employer shall issue a Letter of Intent to the selected Bidder and promptly notify all other Bidders who have submitted proposals about the decision taken.
- 2.13.2 The bidders will sign the contract after fulfilling all the formalities/pre-conditions including Performance Guarantee as mentioned in the standard form of contract within 21 days of receipt of the letter of intent.
- 2.13.3 The Bidder is expected to commence the Assignment/ job on the date and at the location specified in the document.
- 2.13.4 If at any point of time post award of contract, the winning bidder withdraws their proposal then the LoA may be awarded to the bidder coming 2nd in the evaluation process subject to their agreement on undertaking the work on the lowest rate quoted in the bid.

2.14 Confidentiality

- 2.14.1 Information relating to evaluation of Proposals and recommendations concerning awards shall not be disclosed to the Bidders who submitted the Proposals or to other persons not officially concerned with the process, until the publication of the award of Contract. The undue use by any Bidder of confidential information related to the process may result in the rejection of its Proposal and may be subject to the provisions of the Employer's antifraud and corruption policy.
- 2.14.2 The employer reserves the right to verify all statements, information and documents submitted by the Applicant in response to the RFP. Any such verification or the lack of such verification by the Employer to undertake such verification shall not relieve the Applicant of its obligation or liabilities here under nor will it affect any rights of the Employer here under.
- 2.14.3 The selection process shall be governed by and construed in accordance with the laws of India and Distt. Courts at Agra and High Court of judicature at Prayagraj shall have exclusive jurisdiction and all disputes arising under pursuant to and/or in connection with the Selection Process.

2.15 JV/Consortium

- 2.15.1 **No JV/Consortium is allowed** under this RFP (*Bidders using credentials of parents/subsidiary (partial or wholly owned) will not be allowed and all credentials should be in the name of entity submitting the bid*)

2.16 Important Directions

- 2.16.1 All the information uploaded shall be supported by the corroborative documents in absence of which the information uploaded shall be considered as baseless and not accepted for qualification criteria. All the documents shall be uploaded with proper pagination. The page No. shall be properly mentioned in the relevant places.

- 2.16.2 The information shall be uploaded in the sequence as asked for with proper indexing etc. The Bidder shall be fully responsible for the correctness of the information uploaded by him.
- 2.16.3 It is anticipated that many worldwide companies in this field are expected to participate in the tender directly or through their authorized dealers which may be based either in India or abroad. It is expected from the bidders that under such circumstances where foreign companies are involved, all the formalities related to delivery of the vehicle in and out of India, payment to the companies, all other related modalities including seeking clearances, licenses, foreign exchange, etc. from appropriate authorities in India as well as abroad will be fully taken care of by the principle companies or their authorized dealers and Nagar Nigam Agra. While delivering the fully fabricated vehicle to Nagar Nigam Agra, all the modalities will be cleared by the bidder.
- 2.16.4 The Demo / inspection of various parameters of the Septage Dewatering vehicle shall be arranged after placing letter of acceptance to the successful tenderer at manufacturer's workshop, GoUP Engineers / Experts and the Expenses for the same will be borne by the successful bidder.
- The Demo/Inspection visit to happen in 2 phases one at the time of letter of acceptance by the bidder for Authority officials/engineers (ULB) subject to maximum participation of 1 member.
- In the second Demo/inspection phase total 1 officials from ULBs will visit to see the vehicle operations this visit to happen at the time of delivery of vehicles to the ULBs.
- 2.16.5 Rate Validity for Additional Machine: The rate quoted by the tenderer shall be valid for period of one year from the date of Supply of Septage Dewatering vehicle. It is mandatory on the part of contractor to carryout supply of more similar vehicle along with its Operation and Maintenance for two years at the same rate if Nagar Nigam Agra desires. This is an option purely at discretion of Nagar Nigam Agra and does not create any liability directly or indirectly to place any order.
- 2.16.6 The fabricated vehicle shall be tested in at site in India. After successful trial at site it would be handed over to Nagar Nigam Agra after RTO registration formalities are completed. If the trial at site fails in first attempt, the tenderer will have to give second trial at site as directed by Nagar Nigam Agra. Once the trails are successful the vehicle shall be handed over to Nagar Nigam Agra.

DATA SHEET

S.No.	Particulars	Details
1.	Name of the Employer:	Nagar Nigam Agra
2.	Name of the Assignment/ job:	Mobile FSSM through Septage Dewatering Vehicles & Lime Stabilization Unit along with its operation & maintenance for 2 (Two) years in Agra
3.	Date & time and address for submission of proposal/ bid:	22/12/2021 up to 5PM (online Submission) https://etender.up.nic.in
	Date:	22/12/2021
	Time:	5:00P.M.
	Address:	Nagar Nigam Agra Near Soorsadan, M.G. Road, Sanjay Place, Agra – 282002, Uttar Pradesh, India. E-mail: - amcagra1@gmail.com
4.	The Employer's representative is:	Executive Engineer (SBM Nodal Officer)
	Address:	Near Soorsadan, M.G. Road, Sanjay Place, Agra – 282002, Uttar Pradesh, India.
	Telephone:	9319406016
	E-mail:	amcagra1@gmail.com upsolidwaste@gmail.com
5.	Proposals must remain valid days after the submission date, i.e. until:	180 days
6.	Bidders may send in their queries till Date:	NA
7.	Pre-Bid Meeting Date:	NA
8.	Contact	
	The address for requesting clarifications is:	Online through email mentioned below
	Email:	amcagra1@gmail.com ; upsolidwaste@gmail.com
9.	Proposal Submission	In addition to technical proposal, Bidders are required to submit financial proposal (prescribed forms attached), Through online mode only. Submission of the technical and financial proposal in improper form will render the proposal liable to be rejected.
10.	Addendum to be issued	NA
11.	Taxes	Bidder has to quote the bid amount without GST, however all other taxes/levies/octrois/income tax/personal tax (excluding GST) etc. to be borne by the bidder under the contract. GST as per actual will be borne by the authority but it is to be paid/settled by the bidder to the concerned

		authority which will be reimbursed by employer on submission of requisite documents.
12	Bidder to state the cost in	Indian Rupees (INR; ₹)
13	Evaluation Criteria: Criteria, sub-criteria, for evaluation of Technical Proposals have been prescribed:	Detailed evaluation as mentioned below this Table of Data Sheet.
14.	Method of Selection	<p>L1: Lowest cost based selection</p> <p><i>Stage 1a: Pre-Qualification:</i></p> <p>a) Bidders who qualify in the Eligibility Criteria will be considered for Technical Evaluation in Stage 1b</p> <p><i>Stage 1b: Technical Qualification:</i></p> <p>a) Eligibility as per RFP requirement. b) Test of Responsiveness complete (complete document submission). c) Minimum score of 70% marks.</p> <p>Bidders who qualify the following will move to Stage 2</p> <p>Stage 2: Financial Proposal Requirement for eligibility in Stage 2:</p> <p>a) Cleared stage 1 (1a and 1b with minimum 70% marks in stage 1b). b) Financial proposal as per the requirements (eligibility and document) of RFP c) Test of Responsiveness complete (complete document submission).</p> <p>Bidder with the lowest financial cost proposal (L1) will be selected</p> <p>In-case of a tie; the bidder with a higher technical score will be qualified, on further tie the bidder with higher average annual turnover of last 3 consecutive financial years 2018-19, 2019-20, 2020-21 will be qualified. (Calculations will be adjusted to two decimal places for both commercial bid and Technical Score calculations, if required)</p>

Project Responsibility Matrix

S.No.	Activity/Task	Responsibility	Supported By
1	<i>Bid Authority</i>	Nagar Nigam Agra	NA
2	<i>Operator</i>	Bidder	NA
3	<i>Bills Payment</i>	Nagar Nigam Agra	NA
4	<i>Project Monitoring</i>	Nagar Nigam Agra	NA
5	<i>Vehicle/Equipment Purchase</i>	Nagar Nigam Agra	Bidder
6	<i>Vehicle/Equipment Maintenance</i>	Bidder	NA
7	<i>Door to Door desludging, septage clearing, Daily operations of vehicle and lime stabilization unit</i>	Bidder	
8	<i>Immovable and movable infrastructure Development</i>	Bidder	NA
9	<i>Consumable Items</i>	Bidder	NA

Procedure for Detailed evaluation of Technical qualifications (Pre-Qualification, Eligibility and Evaluation)

A) Pre-Qualification

The Bidders will be shortlisted against the eligibility criteria. Those who qualify / fulfil these criteria shall be considered for technical evaluation subject to eligibility criteria fulfilment.

Sl. No	Procedure for Detailed evaluation of Technical qualifications.	
	The bidders will be shortlisted against the eligibility criteria. Those who qualify/fulfill these criteria, shall be considered for technical evaluation.	
	Particulars	Supporting Documents to be submitted
1	The Bidder shall be a private company, firm, Non-profit organization, Society registered entity incorporated in India under the (Indian) Companies Act 1956 / 2013 or a company formed under any other law for the time being in force. The Bidder shall be required to submit a true copy of its Incorporation Certificate.	Copy of Certificate of Incorporation/ Applicable document as per Government.
2	The Bidder must have a valid GSTN certificate.	Copy of GSTN Certificate
3	The bidder should not be blacklisted/ debarred under any contract by any Government/ Government Board/ any Urban Local Body of the Country / Corporation Company/ Statutory Body/ Any Funding Agency/PSU company/ Government of any sovereign countries in the last 5 years.	Self-Certification by the bidder as per format Form Tech - 3
4	The Bidder should comply with the Technical Specifications as per the RFP and shall submit the make, model, complete technical specifications and quantity of the Equipment and manpower to be deployed.	Self-Certification/ declaration by the bidder
5	The Bidder should submit bank solvency of the amount minimum INR 1.2 Cr.	Solvency Certificate shall be prior to six months of the due date of the tender and issued by a nationalized scheduled bank valid for a duration of 5 years (inclusive of any revalidations during the contract period).
6	The list of similar type of works (in India or abroad) as stated in the Eligible Criteria in the role of Prime Contractor or as nominated sub-contractor. Information furnished in the prescribed proforma (Form 2-C) shall be supported by	To be submitted along with completion certificate /work

	the certificated duly self-attested.	order.
7	Profit and Loss statement indicating profit making firm/company/organization for the preceding last 3 financial years before release of this RFP. (In case audited statement not available for FY 2020-21 bidder may submit for FY 2017-2020)	CA certified audited P&L statement and Balance Sheets for the last 3 FYs. (as per Annexure-V)
8	Annual financial turnover for preceding three financial years as certified by Chartered Accountant preceding the Financial Year in which bids are invited. Minimum Qualification of Average Annual Turnover for the last 3 years should be equal to or more than INR 1.9 cr. (In case audited statement not available for FY 2020-21 bidder may submit for FY 2017-2020)	Copies of Applicants duly audited balance sheet and profit and loss account for the preceding three financial years preceding the Financial Year in which bids are invited
9	The bidder shall give undertaking on Rs.500/- stamp paper that it is his/their sole responsibility to arrange the required infrastructure before start of the work	As per Annexure - VI
10	Details of works in hand (in India or abroad)(As per Proforma- VI/A and Proforma - VI/B attached)	Copies of work orders & attested copies of percentage of works completed or part thereof.
11	The tenderers shall upload work plan as per the following outline: a) Organizational set up envisaged by the contractors. b) Site Offices proposed to be set up. c) The pump and its performance details to drive suction system shall be submitted this technical proposal. d) The details about the filtration system along with its layout drawing and process details shall be submitted separately along with the technical proposal. e) The bidder shall submit the test report from a recognized testing lab of the treated sludge after lime stabilization along with the technical proposal. f) The bidder shall submit complete flow diagram, technical details, and catalogue of Lime stabilization unit.	As per requirement

12	The bidder should submit authorization letter from offered chassis manufacturer complying with all technical specifications as desired in this RFP (weight calculation, power calculation).	Authorization letter from chassis manufacturer
----	---	--

Note:

- A. Bidders shall submit the undertaking for equipment / vehicles capability and other undertakings as such on a single Rs.500/- stamp paper (As per Annexure – II).
- B. The authorized dealers shall submit authorization certificate along with the bid to get themselves technically qualified. The authorized dealers and their principal shall be legally liable, jointly and severally, during the bidding process and for the execution and fulfilment of contractual obligations in accordance with the contract terms. The authorized dealers and his principal shall submit the MOU/Authorization letter on Rs.500/- Stamp Paper in prescribed proforma as given in the Annexure - IV to this RFP

B) Eligibility Criteria

The bidders in its name fulfilling the following criteria are eligible to bid for tender.

S.No.	Eligibility	Remarks
1	Technical Capacity: The Bidder shall be manufacturer of 'Vehicle Mounted Septage Dewatering Machines' as specified in the tender or the authorized dealer of the above said manufacture.	If the bidder is authorized dealer, they shall submit the letter of Authorization from the manufacturer of 'Vehicle Mounted Septage Dewatering Machines' as per the Proforma (Annexure – 4) given in tender document.
2	<p>Equipment Supply: The bidder or their manufacturer in their own name should have satisfactorily completed / on-going works of similar nature (Desludging Vehicles/ Mobile FSTP) in Semi Govt. / Govt. / Public Sector Organization during last five (5) years from the date of this RFP release as a prime Contractor in India or abroad (or as a nominated sub-Contractor, where the subcontract had involved similar nature of work as mentioned below, provided further that all other qualification criteria are satisfied) of –</p> <p>One (1) similar completed works each of value not less than value equal to INR 5.15 Cr of project value.</p> <p style="text-align: center;">OR</p> <p>Two (2) similar completed works each of value not less than value equal to INR 3.85 Cr. of project value.</p> <p style="text-align: center;">OR</p> <p>Three (3) similar completed works each of value not less than value equal to INR 2.6 Cr of project</p>	The necessary documents confirming the eligibility should be submitted along with the Bid document. The copy of contract/ agreement/ work order and successful completed performance certificate by competent authority etc.

S.No.	Eligibility	Remarks
	<p>value.</p> <p><i>*Similar nature Means: Work of Supply of 'Vehicle Mounted Sludge Dewatering Machines'. The Bidder shall submit the certificate of satisfactory completion of work from the user, failing which their offer shall be treated as non-responsive. The Bidder / manufacturer shall also submit performance certificate regarding at least one Sludge Dewatering vehicles operating in India</i></p>	
3	<p>For Operation & Maintenance- The Bidder should have successfully completed the similar nature of works (O&M of FSTP/ETP/Desludging Vehicles/ Mobile FSTP/FSSM in ULBs / Semi Govt. / Govt. / Public Sector Organization during last five (5) years from the date of this RFP release as a prime Contractor in India or Abroad (or as a nominated sub-Contractor, where the subcontract had involved similar nature of work as mentioned above, provided further that all other qualification criteria are satisfied) of.</p>	<p>The necessary documents confirming the eligibility should be submitted along with the Bid document. The copy of contract/ agreement/ work order and successful completed performance certificate by competent authority etc.</p>

*In case of on-going/operational works to be considered, the bidder must have received payment of 80 % of the contract sum for the work / works executed till the last date of the month previous to the one in which bid are invited.

Financial Capacity

- I. The value of executed works shall be brought to current costing level by enhancing the actual value of work at compound rate of 10 % per annum; calculated from the date of completion to last date of receipt of applications for tenders.

NOTE: Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

- a. made misleading or false representation in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- b. Record for poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.

Technical Evaluation

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.	Specific experience of the bidder firm relevant to the assignment / job	M.M (100)	Document Proof
-------	---	-----------	----------------

S.No.	Specific experience of the bidder firm relevant to the assignment / job	M.M (100)	Document Proof
A.	Net financial worth (As per the bank / CA statement)	25 marks	Net worth statement from CA
1	₹4.00Cr. – ₹7.50 Cr.	15 Marks	
2	Above ₹7.50 Cr. – Below or equal to ₹10.00 Cr.	20 Marks	
3	Above ₹10.00 Cr.	25 Marks	
B.	Experience of Similar Projects in India or Abroad (Septage Dewatering Vehicles with mobile FSTP) (Completed Projects or operational projects) *(Project combination fetching maximum marks for each category will be clubbed)	25 marks	Experience certificate/ WO/ Contract copy
1	One similar completed works each of value not less than value equal to INR 5.15 Cr.	15 marks	
2	Two similar completed works each of value not less than value equal to INR 5.15 Cr.	20 marks	
3	Three similar completed works each of value not less than value equal to INR 5.15 Cr	25 marks	
C.	Asset details in India or Abroad (Septage Dewatering Vehicles with mobile FSTP in Operation)	20 marks	Asset procurement details with make and model and RC
1	Upto 1 Septage Dewatering Vehicle Operational	10 marks	
2	Between 2 – 3 Septage Dewatering Vehicle Operational	15 marks	
3	Above 3 Septage Dewatering Vehicle Operational	20 marks	
D.	Approach documentation on Project Execution: The PPT should have the following components (not exhaustive): a) Technical profile of the company (5) b) Existing Workforce details (5) c) Project plan for Uttar Pradesh (5) d) Machine Deployment plan (including make, model of machines with load calculation / power calculation and procurement plan) (5) e) Monitoring and Execution plan (5) f) O&M operations for 2 years execution plan (5)	30 marks	Approach document, to be submitted along with the proposal
	Total	100 marks	<i>Minimum qualification score 70.</i>

Section 3: Terms of Reference

3.1. Background:

The Septage Dewatering vehicle services are provided in various locations in India. These vehicles are used for cleaning the sanitary waste, Septage, grit and other silt material from the septic tanks in Nagar Nigam Agra. The collected septage shall be processed scientifically so as to separate liquid fraction and solid fraction. The dewatered liquid will be utilized for jetting purpose. The unit shall be operated by adequate staff provided by successful tenderer for all its operation. The Septage Dewatering Tanker Vehicles shall be robust in construction.

Note: - 1. The tenderers shall submit the engineering drawing of the vehicle along with the bid and get the drawing approved from the Nagar Nigam Agra before starting the body building work.

3.2. Scope Description:

- I. The Septage Dewatering vehicles are intended to be utilized for cleaning of septic tanks located approximately upto 120Mts. Away from the vehicle. The collected septage shall be processed scientifically so as to separate liquid fraction and solid fraction. The dewatered liquid will be utilized for jetting purpose.
- II. Many of the septic tanks are crust filled and located in densely populated areas approachable by narrow lanes. The Tenderer will carefully study the site conditions in which the vehicles are intended to be utilized and shall provide the best possible machinery suitable for the purpose. Under practical working conditions, the vehicle provided by the tenderer should give desired performance on the field. The Contractor shall supply Vehicle Mounted Sludge Dewatering Machines for Septage. The machines are proposed to be operated and maintained on contractual basis for a period of 2 years or 6000 service per vehicle (assuming 6 working days per week and 9-10 dewatering services per day per vehicle for 2 years).

3.3. Scope of Work

- I. The bidder must be able to provide vehicles of varying tank capacity as mentioned in the specification (Detailed breakdown of each tank capacity is enlisted in the specifications).
- II. Scope of work consists of supply of appropriate vehicular chassis of reputed make like MAN / Bharat BENZ / Volvo or Equivalent for Septage Dewatering vehicle along with standard tools accessories and spares.
- III. The Septage dewatering Unit shall be a combined version of Suction and Jetting system with Septage Filtering and Volume reduction facilities mounted on vehicular chassis. The sludge accumulated in the septic tanks shall be sucked by the high-capacity suction system. The high-capacity suction system which will work on the principle of Vacuum suction shall suck the slurry from approx. 120 Mtrs. The collected septage shall be treated so as to separate liquid fraction and solid fraction.
- IV. The dewatered liquid will be utilized for jetting purpose.
- V. The fabricated unit shall be utilized for cleaning septic tanks situated in

densely populated slum areas, residential buildings / complexes which are approachable with narrow, curvy lanes or by-lanes or gullies. As such the said unit shall successfully clean the septic tanks located in such localities in minimum possible time.

- VI. The vehicle as fabricated above shall meet all the prevailing RTO norms
- VII. The scope of work also includes supply of lime stabilization unit
- VIII. The successful tenderer shall carry out Operation of the vehicles & lime stabilization unit as per the requirement of the user department for two years and carry out maintenance of the vehicles for the said years, first year from the procurement of the vehicle being free maintenance period.
- IX. The bidder to establish a vehicle MIS system integrated with GPS installed on the vehicle to always monitor their movements. The bidder will also establish a Command-and-Control dashboard for the authority officials to monitor the vehicle movements. It should be an option that the given MIS solution is scalable and modular to add more vehicles and modules in the future and the same should be interoperable and can be integrated in ICCC centres (available or in future)
- X. Post completion of O&M period as mentioned in the RFP the vehicles to be handed to the Authority in running condition without any defects. The ownership of vehicles to remain with the Authority at all the times.
- XI. The bidder shall also be responsible for entire maintenance and upkeep of the deployed vehicle / machinery for the entire duration of the contract.

PART A(1): SUPPLY & FABRICATION OF SEPTAGE DEWATERING VEHICLE (STANDARD SIZE)

- a) CHASSIS SPECIFICATIONS: --
 - I. The successful tenderer shall supply BS VI Compliant, approximately 28 Tonne GVW / approx. 4275 mm Wheelbase chassis which shall be suitable for fabrication and commissioning of all the necessary equipment and instruments required for Septage Dewatering vehicles with Suction system mounted on it. The chassis shall be having approval of VRDE or ARAI manufactured by leading vehicle manufacturers like MAN/ Bharat Benz/ Volvo or Equivalent. The entire fabricated vehicle shall fulfil latest Agra RTO's norms.
 - II. The Right-hand drive vehicle Chassis shall be powered with water cooled Diesel engine developing sufficient power for specified payload. The other accessories and equipment such as Power Steering, Gear Box, Differential, propeller shafts, Chassis frame and cross members, Front & Rear axle, Clutch, Brake & Suspension system, wheels and tyres, ignition & Electrical system, Fuel Injection Pump, Exhaust system, Power take off Assembly (PTO) etc. shall be as per manufacturing standards mentioned in ARAI or VRDE.
 - III. As regards tyres, lamps, windscreen window glasses, SUPD & RUPD devices and reflectors tapes, doors and hinges etc. shall be provided as per the RTO norms applicable at the time of delivery of vehicles.
 - IV. The fully built vehicle shall comply following dimensions -
 - a) G.V.W. : Min. 28 Tonne & above
 - b) Wheel Base : Approx. 4275 mm
 - c) Overall length : Approx. 8631 mm

- d) Overall width : Approx. 2490 mm
- V. The standard tools accessories and spares supplied with the chassis shall be handed over to the Nagar Nigam Agra at the time of delivery of the unit.
- VI. The unit shall broadly consist of:
 - a. Prime mover
 - b. Tank consisting of Sludge Tank, Dewatering Tank, Reject water Tank and Coagulation Tank
 - c. Vacuum Pump
 - d. High pressure Jetting pump system
 - e. Jetting hose Reel
 - f. Suction Hose Reel.
 - g. Filtration & Polymer dosing system
 - h. Hydraulic System
 - i. Washing & Flushing system
 - j. Piping
 - k. Control Panel.
 - l. Other Accessories.

NOTE: 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. The successful contractor shall make arrangements for registration of the complete unit with the Regional Transport Office. The Government fees required for registration of the units shall be paid by the successful bidder.

b) PRIME MOVER

- I. The prime mover shall be able to provide sufficient power to drive the equipment mounted on the vehicles under all the operating conditions.
- II. The drive for the equipment mounted on the chassis such as Vacuum system, Jetting system, Hydraulic system, etc. shall be taken from vehicle engine through suitable means such as power take-off unit. Their optimum efficiency under the given operating conditions shall be achieved by the selection of the equipment for achieving desired results. The complete unit shall be mounted on the robust auxiliary mild steel framework.
- III. The power required to drive the high-capacity suction system, high pressure jetting system, filtration & Septage Dewatering system, hydraulic plant, etc. hydraulically and simultaneously shall be tapped from the vehicle engine only through suitable Power Take-off Unit of reputed make to ensure uninterrupted service to the Unit. Engine of the chassis shall be used for driving other units through appropriate power take-off unit.

c) TANK

- I. The tank capacity shall be of minimum total capacity of 10000 litres and made of 5 mm thick Mild steel. The fabricated structure shall contain Sludge Tank (3000 ltrs), Process Tank (5000 ltrs), Reject water Tank(2000 ltrs) & Polymer Tank (400 ltrs). The Sludge tank shall be capable to hold minimum 3000 litres of septage. It shall have a non-

return valve arrangement to arrest accidental egress of sewage, inspection window, level indicator, gauge and safety valve. The Process tank and reject water tank shall have arrangement to carry water for jetting system for cleaning initial crust filled septic tank whenever required. The Septage shall be transmitted to Process tank from Sludge tank with proper arrangement.

- II. Process tank shall have a capacity of minimum 5000 litres. The collected septage shall be processed scientifically so as to separate liquid fraction and solid fraction. The arrangement shall be fabricated out of stainless-steel plates. The liquid fraction thus separated shall be transferred to reject water tank. Solid fraction stored in the process tank shall have suitable arrangement for emptying through rear door. If required suitable tipping arrangement shall be provided to discharge the tank.
- III. The reject water tanks shall have a capacity of atleast 2000 litres. The reject water shall be used for Jetting purpose. The arrangement shall be provided to discharge reject water into the septic tank.
- IV. The tank shall be mounted horizontally on the Mild Steel framework on vehicle chassis without tampering the chassis strictly following Agra R.T.O. norms. The tank shall be provided with suitable reinforcements to prevent tank from collapse & elongation in vacuum and pressure conditions. The entire structure installed on the chassis shall be fabricated as per standard engineering practice.
- V. The rear cover (rear door) of the tank shall be fabricated out of 5 mm thick Mild steel plates. The opening and closing of the rear door shall be attached hydraulically.
- VI. The tank shall be approved for requisite vacuum and pressure sustainability. The manufacturer shall submit a necessary certificate if demanded.
- VII. A vacuum safety valve shall be provided suitably on the tank. The tank shall be provided with tipping arrangement to unload the septage accumulated in the tank. The tipping angle shall be minimum 30 degrees to the horizontal and shall be operated using hydraulic system.

d) COAGULATION TANK

- I. The Coagulation tank of suitable capacity shall be made of stainless steel. The coagulant shall be provided in proper concentration ratio to achieve the desired result. A suitable arrangement shall be provided for replenishment of the tank and even if, dilution or mixing of coagulant is required for the effective working of the process.

e) VACUUM PUMP

- I. The high-capacity suction system shall comprise of vacuum pump of minimum 1240 M3 per hour (Free Air Delivery) capacity. The pump shall develop vacuum of around - 0.80 bar. It shall be driven hydraulically.
- II. The vacuum pump shall be imported Battioni Pagani (Italy)/ Wittig (Germany)/ Jurop (Italy)/ Ingersoll Rand (France) / Robushi (Germany) make or equivalent of international repute having following parameters:

Maximum Parameters

Flow Capacity	1240 m ³ /hr
Maximum Vacuum	80%
Flow Rate @60% Vacuum	1180 m ³ /hr

- III. The Vacuum Pump shall be generating sufficient power, simple design principle and reliable in operation. It shall produce laminar flow of the septage and shall generate sufficient vacuum and air velocity in the system to carry solids, semi solids, material accumulated in the septic tank to the Septage tank mounted on the vehicle with ease and it shall not take unreasonable time to fill up the Septage tank. The system shall be provided with Pre-filtration arrangement to remove foreign objects from the septic waste and an effective cleaning system for the same. The pump and its performance details to drive suction system shall be submitted along with Section 'B.
- IV. Safety devices for suction system:
- a) Sludge filter – The vacuum pump shall be fitted with sludge filter to prevent particulate matter from entering into vacuum pump.
 - b) Air filter for blower inlet – Cleaning filter housing with SS mesh type filter cartridge shall be fitted in the vacuum line before the blower to filter the intake air.
 - c) Ancillaries for suction system – It shall be provided with vacuum relief valve on the suction Tank.
 - a. Vacuum Relief Valve – It is set to function at a desired operating value and protects the pump as also the complete system from operating under high, undesired vacuum conditions. As the system reaches the set vacuum level, this valve lifts and ventilates the system by virtue of allowing the air outside to enter at preset level 0 to 0.8 bar.
 - b. Primary Shut-Off – The Primary Shut-Off protects the exhauster / compressor from the harmful effects of an accidental ingress of Septage and other foreign particles caused due to an overflow from the liquid waste tank with the help of dome ball valve.
- V. Filtration & Septage Dewatering System:-
- a) The filtration and Septage Dewatering system shall consist of adequate capacity pump for carrying septage from Sludge tank to Process tank and adequate capacity coagulant dosing pump. The facility shall be such that both the pumps can be operated severally as well as simultaneously and driven with hydraulic motors.
 - b) A suitable filtration system shall be provided for sifting liquid fractions and solid fractions. During the dewatering process, the separated solid fraction shall remain in the Process tank and the liquid fraction shall drain into the reject water tank. The polymer dosing system shall be able to regulate the dose of the coagulant depending upon the density of the septage.
 - c) The reject water shall be such that it will not clog the Jetting system during the operation.

NOTE: The details about the filtration system along with its layout drawing and process details shall be submitted separately in Section 'B'.

f) SUCTION HOSE :-

- I. The Suction Hose reel is mounted onto the pivoting frame at the rear of the unit. The reel is hydraulically driven in/out from the rear panel as well as it can be operated by remote control. The reel has 80 mtr. of 3" suction hose mounted onto it. A further 8 nos. of 3" suction hose of 5 meter length shall be stacked properly at side of the main tank.

g) HYDRAULIC SYSTEM :-

- I. The hydraulic system shall be used to drive hydraulic motors for the operation of the complete system. It shall also be used for tipping arrangement to empty the unit.
- II. A suitable Hydraulic pump of Dowty / Parker / Danfoss / Laduce make or similar shall be capable of developing a pressure of about 180 - 210 bar approx. powered by gearbox mounted PTO. The entire hydraulic system will consist of oil reservoir, pipeline with connected hoses, filters, control and safety valves for operation of hydraulic function etc. All the machineries on the units shall be directly driven by hydraulic motors. The hydraulic motors shall be of Dannfoss/ Parker / Laduce or similar make. It shall be suitably placed on the fabricated vehicles in such a manner as to facilitate the operations and maintenance in user friendly manner and to utilize the available space optimally.

h) PIPING :-

- I. All hydraulic piping subjected to high pressure shall be fabricated from extra strong seamless steel pipes and hoses wherever suitable for operation and all fittings shall be of high quality material. The tenderer shall provide hoses and pipes of reputed make and proven quality. All pipings shall be laid out in such a way that they can be easily drained out through plugged openings in case of clogging.

i) HIGH PRESSURE JETTING PUMP :-

- I. The jetting system shall comprise of high-pressure pump able to generate high pressure (120 liters@100 bar) water jets to break the crust and form slurry. Water stored in reject water tank shall be utilized for the system. The high-pressure jetting system shall be driven hydraulically.
- II. There shall be provision to adjust operating pressure and water flow so that the reject water can be used for various cleaning purposes of the systems incorporated on the vehicle.
- III. The hose reel shall have the capacity to stack required high pressure jetting hose of 120 mtrs and shall be capable of swivel in minimum 180 degrees for the ease of operation.
- IV. This High Pressure Jetting System shall be used for dislodging the Septage in the septic tank to assist to form slurry. The system shall also clean the Vehicle Tank, Manholes etc. with high pressure water jetting.

j) CONTROL PANEL :- (location and material to be defined)

- I. All controls shall be provided and located conveniently. All gauges, switches, pneumatic valves, etc. necessary for the operation of the unit shall be placed such, so that the operator can have complete control of the operation as follows:
 - II. The following operation points shall be included:
 - a) Tipping lever
 - b) Door open / close
 - c) Control panel lamp
 - d) Compound Gauge for Vacuum tank
 - e) Vacuum pump start / stop.
 - f) Return pumping of reject water
 - g) Jetting pump start / stop
 - h) Jetting pump pressure control
 - i) Suction hose reel in / out
 - j) Jetting hose reel in / out
 - k) Dewatering return control
 - l) Mixing of sludge tank content
- k) REMOTE CONTROL
- I. The remote control shall be used to operate following functions:
 - a. Vacuum pump start / stop. Return pumping of reject water Jetting pump start / stop Jetting pump pressure control Suction hose reel in / out Jetting hose reel in / out
- l) ACCESSORIES :-
- I. The following accessories shall be supplied along with each unit.
 - i. A Walking platform with ladder and folding safety barrier to enable the operator to inspect the content of the sludge tank and dewatering tank. It can also be used for stacking extra suction hoses - 1 No.
 - ii. Stainless steel lockable tool box. – 1 No.
 - iii. Suitable hose rack to accommodate suction hose. – 1 No.
 - iv. Reverse audio horn – 1 No.
 - v. Mud flaps. – 4 Nos.
 - vi. Mud guard – 2 Nos.
 - vii. Filler Hose – 10 Mtr(for water filling).
- m) DRIVER'S CABIN :
- I. The driver's cabin shall be as per chassis manufacturing standard.
- n) PAINTING:-
- I. Both internal and external surface of the tank shall be given proper treatment prior to spray painting. The interior of the tank shall be coated with two coats of superior quality anti-corrosive Zinc rich Epoxy primer with two coats of approved quality Epoxy paint. The exterior unit shall be painted with two coats of superior quality anti-corrosive primer with

two coats of approved quality Polyurethane paint. The bidder shall get the paints and shades approved from the Nagar Nigam Agra Engineers.

o) TESTING AND INSPECTION:-

- I. Tests on equipment at manufacturer's premises as required will be carried out in accordance with the manufacturers standard. All inspection, examination and testing shall be carried out in presence of the Nagar Nigam Agra Engineer's representative in accordance with the specification.
- II. If the Engineer's Representative witnesses a test, he shall be given a copy of the test results and certificates, upon request.

p) MISCELLANEOUS :

- I. Suitable size of under run bars fabricated from MS angles shall be provided at rear end so as to protect the fatal accident from rear.
- II. Suitable type of mudguards on the rear wheels fabricated from 10 gauge (3.15 mm) MS sheet and supported by suitable size MS bracket shall be provided. The MS brackets shall be rigidly fixed to the rear body frame by means of nuts and bolts or by securely welding.
- III. A sturdy towing hook shall be provided at the front end to tow the vehicle as and when required.
- IV. All controlling switches for lights, driver cab light and wiper machines shall be provided on dash board panel or near driver's seat to operate easily..
- V. Vehicle registration Number plates at the front end and at rear end shall be provided as per R.T.O.'s requirements.
- VI. Head lights, tail lights, stop lights, direction indicators lights shall be provided. Tail lights and the stop lights shall be fixed in the rear with protected with outer covering of wire mesh.
- VII. Sign board for number plate and signal plate at the rear of the body shall be provided on M.S. Angle and fitted with nuts and bolts. Number plates of suitable size shall be painted as per RTO requirement on both the sides.
- VIII. The Septage Dewatering vehicle shall conform in all respects with provision contained in the Motor Vehicle Act and B.M.V. Vehicle Rules or to any other statutory modifications or re-enactments thereof from time to time.
- IX. The successful contractors shall not take the advantage of Municipal specifications for any error / omission.

q) LIGHT ARRANGEMENT:

- I. A four spot light arrangement of LED lamp of min.12 watt and 12 V shall be made on the top LH , RH and at rear end.
- II. Tail lights and the stop lights assembly shall be fixed in the recess in the rear panelling with proper wire mesh guard bracket. The compartment shall be provided with sufficient illumination with concealed wiring for illumination in driver compartment.

r) REAR BUMPER:

- I. Rear bumper made from M.S. C channel of suitable size shall be fixed at the rear end of vehicle with adequate distance from the rear body as per existing design.
- II. Fire extinguisher - 02 Nos. of Fire Extinguisher of suitable capacity to be provided.
- III. First Aid Box - Cabin shall be provided with first aid box.

PART B: SUPPLY & INSTALLATION OF LIME STABILIZATION UNIT

- i. The automatic lime/sludge mixing plant is used for creating lime stabilization of de-watered sludge. MOC of Stabilization unit shall be mild steel with special paints which are going to be direct contact with sludge. Stabilization with lime ensures a uniform pH-value in the sludge and significantly reduces odours. The lime stabilized sludge will be ready for use as fertilizer on farmland, soil reclamation, covering in landfill sites or composting.
- ii. At the front of the container a dosing unit is located which feeds the lime into the sludge. The plant is 100% electrically operated, with frequency convertors to regulate the speed.

iii. **SPECIFICATIONS:**

Sludge Handling Capacity	8m3
Lime Capacity	1m3
Average Process Rate	6 to 8 m3/hr
Length (with worm Conveyor)	8200 mm
Length (without worm Conveyor)	6600 mm
Width	2100 mm
Height (with worm Conveyor)	2400 mm
Height (without worm Conveyor)	1700 mm
Weight	4900 kg
Connected Load	3 Kw
Power Source	Electrical 3 phase 380 Volt

The firm is responsible for ensuring compliance with the treatment and discharge norms in order to reuse treated wastes as a fertilizer or soil conditioner in agriculture

Parameter	Concentration not to exceed (mg/kg) dry basis, except for pH and carbon to nitrogen ratio
Arsenic	10
Cadmium	5
Chromium Copper	50
Copper	300
Lead	100
Mercury	0.15
Nickel	50
Zinc	1000
C/N ratio	20-40
pH	5.5 -8.5
Compost Quality (FCO) as per SWM Rules, 2016 and Dept. of Fertilizers	

Parameter Concentration not to exceed (mg/kg) dry basis, except for pH and carbon to nitrogen ratio)

PART C: OPERATION & MAINTENANCE OF SEPTAGE DEWATERING VEHICLES & LIME STABILIZATION UNIT:

The successful contractor shall carry out the operation and maintenance of Vehicle Mounted SEPTAGE DEWATERING Units & LIME STABILIZATION UNIT as per the programme, planned by the user department. The successful contractor shall arrange for the operation & daily general maintenance of the equipment by appointing and designating staff as per the operation & maintenance requirement narrated hereafter. Brief information for operation of this equipment is given below.

Operation and Maintenance Requirements:

- I. It is expected from contractor to carry out the operation and maintenance of above-mentioned vehicles for the period of two years or 6000 number of services per vehicle whichever is earlier.
 - a) Contractor shall arrange for required staff per vehicle for operation of these vehicles. The operations will be coordinated by the SWM / Maintenance Department of respective wards. The contractor shall provide the said service as per the requirements. The contractor shall provide sufficient staff for maintenance of above-mentioned vehicles so that the downtime of the vehicle shall be bare minimum and vehicles shall be maintained as per standard engineering schedules of maintenance.
 - b) The Contractor shall submit the information of the staff appointed for Operation & Maintenance of the machines regarding Identity cards, address, age, Mobile phone numbers, etc.
 - c) The Urban Development Dept., U.P will be responsible to provide sufficient land space to setup the lime stabilization unit & to park the vehicles.
 - d) The successful bidders will have to carry out the general daily preventive maintenance in addition to minor break down maintenance as per the schedule of maintenance. General cleaning and up-keepment of full vehicle will be in the scope of the contractor.
 - e) The Contractor will supply all consumables including fuel such as lubricants, hydraulic oil & grease etc. and Spares if required for the vehicle during contract period.
- II. Responsibilities of the successful tenderer will remain as below:
 - f) They shall arrange for all the labourers, mechanic at their level and at their own cost.
 - g) They shall arrange for all the consumables, oil and genuine spare components and same should be fitted on the machine at their level and at their own cost.
 - h) They shall have skilled personnel to attend maintenance of machines.
- III. In case of accident of the machine, major break downs would be inevitable.

- The machine shall be repaired and put back into operation by the successful bidder at the earliest.
- IV. The contractor shall observe complete safety of the Nagar Nigam Agra's equipment while performing the operation & maintenance at site. In case of theft of the vehicle on site or during transit, the contractor will compensate Nagar Nigam Agra with similar vehicle or with cost of vehicle considering depreciation as decided by Nagar Nigam Agra.
 - V. The vehicle chassis would be sent to service centres of the chassis manufacture as per the schedule given by them. Further the vehicle chassis would be sent to repairs, if any, and quarterly servicing after the completion of the initial free services schedules.
 - VI. The Contractor shall be held responsible for any penalty / fine imposed by Traffic and R.T.O. Authorities etc. when vehicle is on the road.
 - VII. Machines shall be parked at Secured Municipal premises on day-to-day basis and shall be operated under the municipal supervision. The sufficient parking / working place (open / sheltered) will be made available at Municipal premises for periodical maintenance / servicing / breakdown.
 - VIII. The contractor shall make his own arrangement for Cupboards / Lockers for storing consumables and spare parts required for O & M of these vehicles / machine. The storing of these materials shall be at Contractors own risk.
 - IX. Contractor shall provide Mobile Telephones to their Supervisor for the purpose of work for controlling the O & M activities. Water & electricity shall be provided free of cost by Nagar Nigam Agra at municipal workshop.
 - X. The Programme for operation shall be given by Nagar Nigam Agra and contractor shall strictly follow this schedule. On any working day the vehicle shall be taken for carrying out necessary preventive maintenance. If the work site demands operation of the equipment beyond one shift, the contractor will be asked to continue with the work.
 - XI. Payment is not admissible to the contractor when the machine is non – operative due to absenteeism of contractor's staff or due to breakdown of the vehicle.
 - XII. Each shift shall be of 8 hours which including the time for filling water tank and Diesel and to &fro time to cleaning / discharge site & back. However, the shift timings shall be changed or modified as directed by the Asst. Authority's Representative. The driver shall report to the concerned officer at ward level and follow the instructions given to him from time to time.
 - XIII. If the operation of the machines is required at time on any day including Sundays & Holidays in addition to the routine programme, it would be the responsibility of the contractor to provide the staff along with the machine as directed by Engineer.
 - XIV. In case the tenderer fails to supply the vehicle on a stipulated shift, he is not entitled for the payment for that shift and the same will be treated as short supply of vehicle. Moreover, the vehicles will be hired to complete the work at the risk and cost of tenderer and the same will be deducted from tenderers bills / running bills.
 - XV. The contractor shall provide the service in any division, irrespective of allotted divisions as and when required by Nagar Nigam Agra.
 - XVI. If required by the user department, the contractor shall provide maximum upto 20% additional services over and above scheduled services every year. The additional services shall be provided at the same rate, terms and conditions

applicable for that particular year. These shifts would be adjusted from the next year's quota of scheduled shifts. While utilizing these additional services, the user department shall follow due procedure and take due sanction of Zonal DMCs with proper justification.

- XVII. The contractor shall get registered themselves under EPF & MP Act, 1952 & ESIC Act of 1948 & shall produce the Certificate of Registration in the concerned office of SWM Section, on demand.
- XVIII. The staff employed by the contractor shall be covered with all statutory labour laws in vogue as mentioned in General Conditions of Contract. All staff employed shall have to be insured. The contractor in this regard shall submit the necessary documents before starting the work.
- XIX. The contractor shall insure their employees deputed for carrying out the subject work under Workman Compensation Act, 1923 & Fatal Accident Act 1885 & shall produce the Certificate of the same. Nagar Nigam Agra will not be responsible for any financial liabilities in case of any accident / hazard.
- XX. The vehicles shall be road worthy as approved by R.T.O. conforming to rules and regulations prescribed in this respect from time to time or by any other concerned statutory and competent authorities regarding use of fuel or pollution control or any other modifications.
- XXI. The contractor shall keep the Authority, their officers & servants harmless & indemnify from & against all losses, damages, suits, cost charges, claims & demand whatsoever including claims under Workmen Compensation Act 1924, Fatal Accident Act 1885, their offices or servants may sustain, incurred or become liable to pay by reason or in consequences of any injury to any person or to any property either belonging to the Nagar Nigam Agra or others, whether resulting directly through any accident or otherwise life or property while carrying out any work only due to negligence of Contractor & such damage / injury or loss of life or property shall be made good & / or as the case may be / shall be paid immediately by the contractor to the satisfaction in all respect of The Authority.
- XXII. The contractor shall not be liable in any manner whatsoever to the Nagar Nigam Agra in the event of contractor being prevented or delayed in the performance of any of its obligations under this contract due to conditions constituting force majeure which shall include but not limited to act of god, strikes, lockouts, concerned action of workmen, breakdown of communications etc, or other cause which is beyond the control of the contractor.
- XXIII. Monthly billing as per the rates quoted by the tenderer in schedule shall be raised by the contractors for the work they have carried out (maintenance and operation of the machine) in the previous month and the same shall be paid by Nagar Nigam Agra within 30 days from submission of bill as per due Nagar Nigam Agra procedures.
- XXIV. Day to day reports / log sheets of operation and maintenance shall be filled in by the contractors and the same shall be submitted to Nagar Nigam Agra. The format of report shall be prepared by the successful contractor and the same shall be got approved by Nagar Nigam Agra.
- XXV. As regards servicing, routine and scheduled maintenance of the vehicles, which include regular checking of Oil levels, coolant levels and top-up of the same shall be carried out by the successful tenderer through their Maintenance staff on weekdays. The breakdown of the vehicles owing to the

negligence on the part of the contractor owing to this will be made good by the contractor.

- XXVI. The details of Septic Tanks which are not cleaned / could not be cleaned due to site difficulties shall be informed to Nagar Nigam Agra
- XXVII. The contractor shall also maintain records for consumables, spares and maintenance in appropriate formats approved by Nagar Nigam Agra. The same shall be produced by the Contractor whenever asked for.
- XXVIII. The routine operation programme shall generally be prepared taking into consideration the working days i.e. Monday to Saturday.
- XXIX. The contractor shall follow all the safety Norms as per directives by Hon'ble High Court of Prayagraj while working on Sewer lines / Septic Tanks at site. The contractor shall provide safety equipment as mentioned in this document. In case of any accident due to non-compliance of safety norms / equipment, the contractor shall be held responsible.
- XXX. After completion of the contract, the contractor shall return the machines in good working conditions to Nagar Nigam Agra. The vehicle shall be ply-able on the road and the machine shall be in working condition. This will be ascertained by operating the machine for one shift on the municipal sewer / Septic Tank. The contractor shall produce required documentation while handing over the vehicle to Nagar Nigam Agra.
- XXXI. The prices quoted shall be firm throughout the contract period. The lowest successful tenderer shall submit Rate analysis for each item in prescribed format attached at Annexure (D) after opening of price bid i.e. Section 'C'.

3.4. Payment Terms:

- I. Payment shall be made only as per normal authority procedure
 - a) Advance Payment: -
 - 1. Since the Project requires heavy CAPEX cost in the initial phase hence a special provision for 30% (of CAPEX cost) advance payment to the bidder for Septage dewatering vehicle/machinery purchase shall be made post successful submission of BG of the same amount (30%, of CAPEX cost). The BG shall be returned post successful delivery of the vehicle and upon submission of O&M performance guarantee.
 - b) Payment for the body fabrication work of Septage dewatering vehicles:
 - 1. The payment for body fabrication shall be made after successful trial of the Septage Dewatering Vehicles. The payment shall be processed as per due procedure of Nagar Nigam Agra. i.e., within 30 days on receipt of bill, after satisfactory completion of the TRIAL.
 - c) O&M Payments (OPEX)

1. Monthly payments to be made as per the O&M cost submitted in the bid along with desludging activity details (Operator needs to submit desludging form from the customer along with a valid address proof self-attested photocopy of the customer.)
2. In case of completion of 6000 services per vehicle before the stipulated time of 2 years balance payment to be made to the operator in totality post completion of 6000 services. Or else the payment to be made as per time schedule (monthly payments for the duration of 2 years).

3.5. Penalty Clause:

1. There shall be regular review regarding the performance of the contractor by Nagar Nigam Agra. In case, at any stage, it is observed that the performance of the contractor is unsatisfactory, or discrepancies are found in the works carried out by contractor, Nagar Nigam Agra reserves the right to cancel the contract and blacklist the contractual firm(s) after giving due opportunity.
2. Penalty for delay in supply:
 - a. For failure to complete the work / supply the articles within the stipulated period a penalty equivalent to 0.5% per week or part thereof on the value of the delayed work / articles / services shall be recovered from the successful tenderer without any reference to the successful tenderer. The amount of the penalty shall be, however, subject to the maximum of 10% of value of the delayed work may be fixed by the Authority.
3. Penalty for inferior quality of material: -
 - a. In case the Contractors at any time during the continuance of these present supply any of the material mentioned in schedules is rejected because of inferior quality, the The Authority reserves right to levy penalty for such inferior supply from contract, not exceeding 20% of the cost of supplied material.
 - b. The period required for the replacement of inferior quality of material with approved quality material shall be made within seven (7) days or as decided by Nagar Nigam Agra.
 - c. Under practical working conditions, Septage Dewatering vehicle provided by the tenderer should give desired performance on the field. If at any stage during the contract period it is observed that the vehicle is not giving desired performance, Nagar Nigam Agra reserves right to take penal action deemed fit including recovery by following due procedure.
4. Schedule of Penalties for Operation & Maintenance of Septage Dewatering vehicles

Sr.	Reason for Penalty	Amount of Penalty
1	Short Supply of Vehicle	₹. 10,000/- per service.

2	Late Reporting	₹. 500/- per hour. Max. up to 4 Hours.
3	a) Penalty for Vehicle reported late for more than hour of intimated reporting time/ Schedule time.	After four hours, delay in reporting shall be treated as short supply and the penalties applicable to short supply will be imposed.
4	For not submitting/producing the F.C.R. documents of the vehicles, P.U.C. and Valid Driving Licence etc.	₹. 200/- per person per trip.
5	Foul Odour of solid fractions at location provided to successful tenderer	₹. 10,000/- per instance.
6	Water seepage during treating / drying of solid fraction	₹. 10,000/- per instance.

3.6. SPECIAL DIRECTIONS TO THE TENDERERS

- I. The scope of work involves the supply and fabrication of Septage Dewatering vehicles on appropriate B.S. VI compliant chassis.
- II. The specifications only show the requirements briefly and each tenderer shall attach descriptive literature along with detailed technical brochure describing the items covering all the salient features so that an explanation will be available with the tender as to how the tender meets the requirement stipulated herein.
- III. The tenderer should have to furnish the complete technical information requested under schedule of technical details attached as Proforma 'VIII'. Merely, writing as per requirement or complied / or as per brochure/ leaflets attached is not acceptable.
- IV. The tenderer shall ensure that the built Septage Dewatering vehicle supplied shall be ready to use.
- V. The built Septage Dewatering vehicle supplied shall be capable to be used under all conditions continuously with no drop in efficiency or any ill effects on its components.
- VI. The built Septage Dewatering Tanker vehicle supplied shall meet all relevant safety norms stipulated under IS standards.
- VII. The tenderer shall offer the equipment / components of the makes stated in the specifications. If any deviation is made the tender is likely to be rejected.
- VIII. Every part of the Septage Dewatering Tanker vehicle including rubber parts shall be guaranteed for a period of one year.
- IX. It will be the responsibility of the tenderer to deliver the fabricated Septage Dewatering vehicles to the authority
- X. The delivery period shall be 6 months from the date of receipt of chassis.
- XI. There will not be any mobilization period in this case & the successful tenderer will have to commence the work immediately from the date of placement of work order or the commencement date mentioned in the work order.
- XII. The fabrication and supply of Septage Dewatering Tanker vehicles will be subject to inspection by the department officials prior to taking the delivery of vehicles at manufacturers place.
- XIII. The vehicle shall meet all the requirements as per Motor Vehicle Act 1988 and CMV rules 1989.
- XIV. Nagar Nigam Agra will provide shed for parking of Septage Dewatering Vehicles & installation of Lime Stabilization and Electrical Connection for Operation and Maintenance.

XV. DGS&D & ITS APPLICATION

- a) Tenderer shall tender the DGS & D rate for the chassis/ vehicle complying BS VI Standard Ex-Agra, if the offered model is included in the DGS & D rate schedule & should attach the copy of DGS & D rate schedule & their details in Envelope 'B'
- b) The chassis shall be approved by competent authority i.e. ARAI / VRDE their details shall be uploaded in Envelope "B"

XVI. INSPECTION

- 1) Finish goods shall be offered for inspection and testing to Nagar Nigam Agra by the tenderer prior to its dispatch/ delivery.
- 2) Tenderer shall arrange to direct their technical representative to Nagar Nigam Agra's work site for demonstrating and commissioning of the goods, whenever the department calls for.
- 3) Following of the above does not any way release the tenderer from any warranty or other obligations under this contract.
- 4) The successful tenderer shall have to get the work inspected and approved at the following stages by authorized representative. The cost of inspection will be borne by contractor.
 - a) Chassis prior to taking delivery.
 - b) Structure and panel Work.
 - c) Road test of the vehicle.

XVII. WARRANTY

- 1) The successful tenderer will have to furnish a Maintenance Guarantee, undertaking for service, repairs, replacement etc. against any defects in the material used, in body construction for 12 calendar months from the date of acceptance of vehicles, in prescribed format. Any damages, defect or undue wear observed due to bad workmanship or defective materials during the Guarantee period shall be made good by the tenderer at his own cost.

XVIII. DELIVERY

- 1) Free delivery of fully fabricated vehicle shall be given at (As per directions of the Authority).
- 2) The chassis will have to be collected and transported at the work place by the successful tenderer for Body fabrication work.

XIX. SPECIFICATIONS AND DRAWINGS

- 1) The detailed drawing of the body showing detailed specifications of driver cabin, rear body structure position and other fitments shall be submitted along with the tender.

XX. R.T.O. REQUIREMENTS

- 1) The Encroachment vehicle body shall conform in all respect the provision contained in the M.V. Act 1988 and C.M.V.R. rules 1989 or to any other statutory modification or re-enactment thereon from time to time. All the equipment and fittings necessary for R.T.O.

- passing shall be provided on the vehicle.
- 2) The tenderer has to take necessary care of Insurance, temporary registration etc. of the vehicles till the final registration. The tenderer has to observe R.T.O. restrictions regarding height, width and overhang of equipment.
 - 3) The final registration of the vehicle will have to be done by the successful tenderer and the cost on account of the same should be included in the offer. Municipal vehicles are exempted from payment of insurance charges & taxes.

XXI. INSURANCE

- 1) The vehicles along with drivers must have been insured with Third Party insurance while in transit at the time of transportation of chassis for Body fabrication work and during the delivery of complete Septage Dewatering vehicles to Nagar Nigam Agra.

XXII. WORKMANSHIP AND MATERIAL

- 1) Workmanship executed shall be of the highest order. All rivets and bolts, holes shall have a coat of approved paint on both surfaces before riveting or bolting or welding. All steel screw, bolts, rivets etc. shall be zinc coated or shall have rust proof coats by recognized process.
- 2) All the material to be used in the fabrication of the body work shall be of good quality or approved make latest type.
- 3) All equipment and material shall comply with the requirements of the latest relevant I.S. specifications or international standards. The structure of the vehicle shall be rattle free and noiseless while in motion.

XXIII. Undertaking to be submitted for Taking Back / Tow Back the Nagar Nigam Agra Chassis:

- 1) Undertaking from the successful bidder on ₹.100/- stamp paper wherein it shall be clearly stated that "Nagar Nigam Agra will have "Right to Entry" into the premises / workshop where the Nagar Nigam Agra chassis are parked for fabrication work and the owner of the premises/ workshop will not take any objection if Nagar Nigam Agra desires to pull back the chassis / vehicles which is the property of Nagar Nigam Agra at any point of time during currency of contract."

XXIV. FINISH

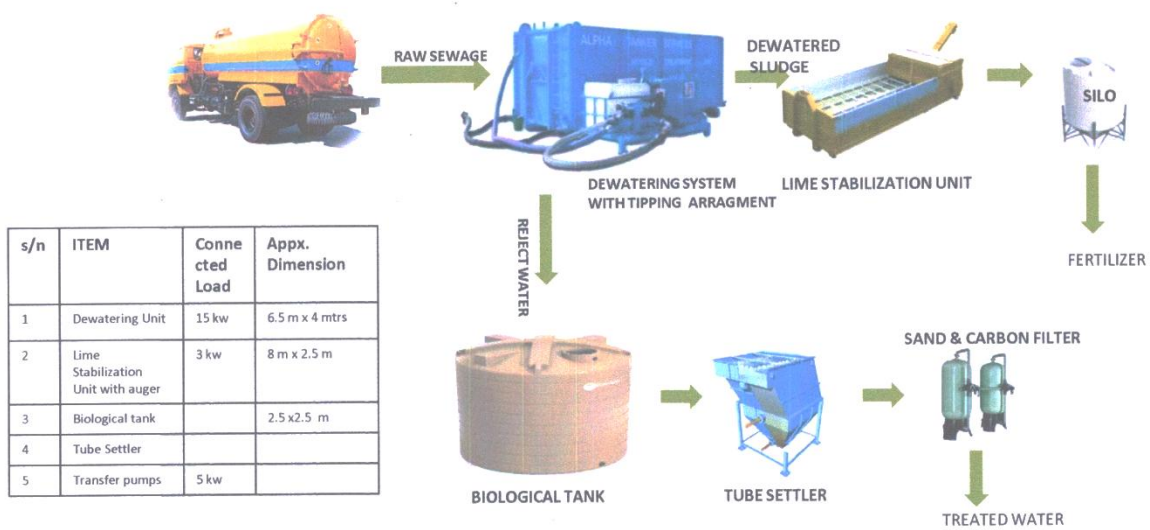
- 1) The successful tenderer shall arrange demonstration, operational and maintenance training programme for the Nagar Nigam Agra Driver and Technical staff for pump and the controls supplied for Septage Dewatering vehicle. Also, successful Tenderer along with chassis manufacturer shall arrange Maintenance and Operational training for BS VI chassis supplied for Septage Dewatering vehicle for Nagar Nigam Agra staff.

XXV. Note:

- 1) All the references related to Sales tax, Central Sales tax etc. shall be ignored and Good and Service Tax (GST) shall be taken into account.
- 2) All the latest circulars, communications, directives, related to GST shall be made applicable.

Section 4: Project Information Memorandum

Details of Process flow diagram and work plan are as per below:



15 KLD SLUDGE TREATMENT PROCESS FLOW DIAGRAM



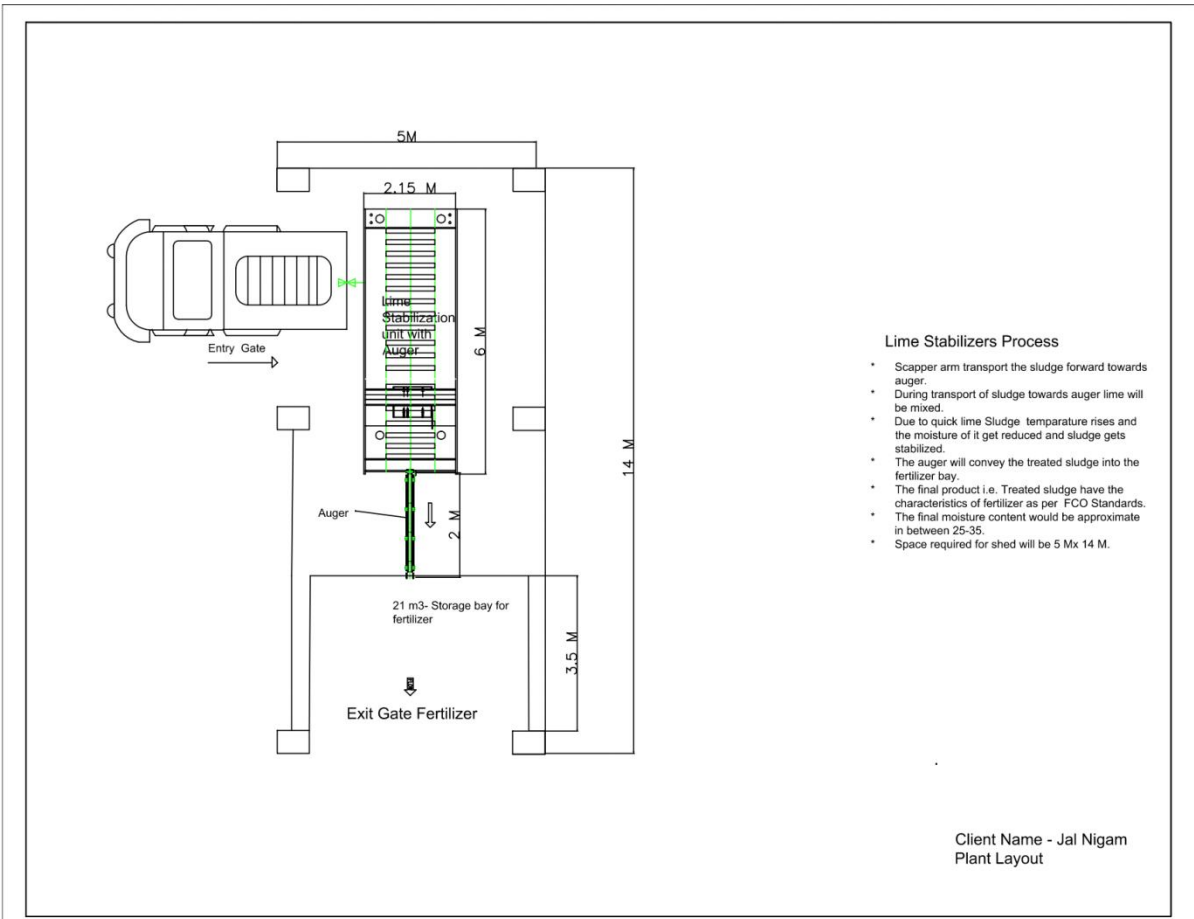


Figure 1 Lime stabilization unit operations flow

Section 5: Technical Proposal – Standard Forms

FORM TECH-1

LETTER OF PROPOSAL SUBMISSION

[Location, Date]

To,

[Name and address of Employer]

Dear Sirs,

We, the undersigned, offer to provide the job for Mobile FSSM through Septage Dewatering Vehicles & Lime Stabilization Unit along with its operation & maintenance for 2 (Two) years in Agra” – Swachh Bharat Mission (Urban), Uttar Pradesh in accordance with your Request for Proposal dated *[Insert Date]* and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal with requisite EMD and bid processing fees.

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

If negotiations are held during the period of validity of the Proposal, we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,
Authorized Signatory
[In full and initials]

Name and Title of Signatory:
Name of Firm:

Address:

FORM TECH-2

Form 2: BIDDER'S ORGANIZATION AND EXPERIENCE

Form 2A: Format for Details of Bidder

1. Details of Bidder

a	Name of bidder with full address	:	
b	Tel. No.	:	
c	Fax No.	:	
d	Email	:	
e	Year of Incorporation.	:	
f	Name and address of the person holding the Power of Attorney.	:	
g	(i) Place of Business.	:	
h	(ii) Date of Registration.	:	
i	Name of Bankers with full address.	:	
j	GSTN Registration Number (copy).	:	
k	Permanent Account Number (copy).	:	
l	Are you presently debarred / Blacklisted by any Government Department /Public Sector Undertaking /Any Employer? (If Yes, please furnished details)	:	
m	Name and details (Tel / Mobile / E mail) of contact persons	:	

Form 2B: Format for Financial Capability of the Bidder

(Equivalent in Rs. crores)

Bidder*	_____ <i>(Name of Bidder)</i>				
FY	2018-19	2019-20	2020-21	Total	Average
Annual Turnover					
Net Worth					
Net Profit after Tax					
Certificate from the Statutory Auditor					
<p>This is to certify that _____ <i>(Name of the Bidder)</i> has annual turnover as shown above against the respective years.</p> <p>Name of the audit firm:</p> <p>Seal of the audit firm:</p> <p>Date:</p> <p style="color: blue;"><i>(Signature, name and designation of the authorized signatory)</i></p>					

The Bidder should provide the Financial Capability based on its own financial statements. Financial Capability of the Bidder's parent company or its subsidiary or any associate company will not be considered for computation of the Financial Capability of the Bidder.

* Bidder should fill in details as per the row titled Annual turnover in the row below.

Form 2C: Engagement Experience

List projects in the last five years which are similar to that required in the RFP.

Assignment name:	Value of the contract (in current INR):
Country:	Duration of assignment (months):
Name of Employer:	Total quantity of sludge treated/Number of shifts of operation for mobile FSSM vehicle:
Address:	
Start date (month/year):	
Completion date (month/year):	
Narrative description of Project (scope details):	

(In addition to above format, scan copies of completion certificate/certification of work undertaken to be also included for each of the project)

FORMTECH-3

Letter for Blacklisting

[Location, Date]

To,

[Name and address of Employer]

Subject: Letter of Declaration for not have been Blacklisted

We, *[Name of Firm]* have not been blacklisted/ debarred/ termination of contract except for reasons of convenience of employer by any Government/ Government board/ Corporation/ Company/ Statutory Body/ PSU Company/ Non-Government/ Government of any sovereign countries/ Private agencies and Funding Agencies in the last 5 years.

For *[Name of Firm]*,

Authorized Signatory *[In full and initials]*

Name and Title of Signatory:

Name of Firm:

Address:

FORM TECH-4

Power of Attorney for signing of Application

Know all men by these presents, We.....
(name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authorize Mr/ Ms (name),..... son/daughter/wife ofand presently residing at, who is presently employed with us and holding the position of, 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 the Request for Proposal Mobile FSSM through Septage Dewatering Vehicles & Lime Stabilization Unit along with its operation & maintenance for 2 (Two) years in Agra" – Swachh Bharat Mission (Urban), Uttar Pradesh. Project proposed or being developed by Nagar Nigam Agra (the "Authority") 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 Authority, representing us in all matters before the Authority, signing and execution of all contracts including the Concession Agreement and undertakings consequent to acceptance of our bid, and generally dealing with the Authority 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 Concession Agreement with the Authority.

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, 20.....

For

..... (Sole Bidder)

(Signature, name, designation and address)

Witnesses:

- 1.
- 2.

(Notarised)

Accepted

.....

(Signature)

(Name, Title and Address of the Attorney)

Notes:

- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- Wherever required, the Applicant should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/ power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Applicant.
- For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Applicants 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 Apostille certificate.

Section 5: Financial Proposal – Standard Forms

FORM FIN-1 FINANCIAL PROPOSAL SUBMISSION FORM

Location

Date

To: *[Name and address of Employer]*

Dear Sirs:

We, the undersigned, offer to provide the job for Mobile FSSM through Septage Dewatering Vehicles & Lime Stabilization Unit along with its operation & maintenance for 2 (Two) years in Agra” – Swachh Bharat Mission (Urban), Uttar Pradesh in accordance with your Request for Proposal datedand our Technical Proposal. Our Financial Proposal is placed as under:

Sl. No.	Item	Unit	Quoted Price per Unit in Rs	Number of Units	Total Cost
1	Supply of septage Dewatering Vehicle (Standard Size)	Nos.		1	
3	Lime stabilisation unit	Nos.		1	
4	Operations Maintenance cost* and (1 st Year)	Year (25 working days/month)		1	
5	Operations Maintenance cost* and (2 nd Year)	Year (25 working days/month)		1	
6	Total (Amount in Word)				

*NOTE: *This includes all OPEX cost including Collection, Desludging Treatment and Transportation of residual solids*

We hereby confirm that the financial proposal is unconditional and we acknowledge that any condition attached to financial proposal shall result in reject of our financial proposal. Our Financial Proposal shall be binding upon us subject to the modification resulting from Contract negotiations, up to expiration of the validity period of the proposal.

Yours sincerely,

Authorize Signature [In full and initials]

Name and Title of Signatory:

Name of Firm:

Address:

Annexure - I

PRE-CONTRACT INTEGRITY PACT

The Bidder commits himself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of his bid or during any pre-contractor or post-contract stage in order to secure the contractor in furtherance to secure it and in particular commit himself to the following:-

1. The Bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the NNG, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the Contract.
2. The Bidder further undertakes that he has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the NNA or otherwise in procuring the Contractor for bearing to do or having done any act in relation to the obtaining or execution of the Contractor any other Contract with the Government for showing or for bearing to show favour or disfavour to any person in relation to the Contractor any other Contract with the Government.
3. The Bidder will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
4. The Bidder will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
5. The Bidder, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments she has made, is committed to or intend to make to officials of the NNA or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
6. The Bidders shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the NNA as part of the business relationship, regarding plans, technical proposals and business det

ails, including information contained in any electronic data carrier. The Bidder also undertakes to exercise due and adequate care lest any such information is divulged.

7. The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
8. The Bidders shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
9. The Bidder and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process. Notwithstanding anything to the contrary contained herein, the Authority may reject an Application without being liable in any manner whatsoever to the Applicant if it determines that the Applicant 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.

For the purposes of this Clause 9, the following terms shall have the meaning hereinafter respectively assigned to them:

- a) "Fraudulent practice" means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;
- b) "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;
- c) "Undesirable practice" means (i) establishing contact with any person connected with or employed or engaged by the Authority 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
- d) "Restrictive practice" means forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

Signature of Tenderer/Bidder

Annexure - II

(On Rs. 500/-Stamp Paper)

DECLARATION CUM INDEMNITY BOND

I, _____ of _____, do hereby declare and undertake as under.

1. I declare that I have submitted certificates as required to the project authority at the time of registration of my firm/company and there is no change in the contents of the certificates that are submitted at the time of registration.

2. I declare that I _____ in _____ capacity as Manager/Director/Partners/Proprietor of _____ has not been charged with any prohibitory and/or penal actions such as banning (for specific time or permanent)/de-registration or any other action under the law by any Government and/or Semi Government and/or Government undertaking.

3. I declare that I have perused and examined the tender document including addendum, condition of contract, specifications, drawings, bill of quantity etc. for in part of tender and accordingly, I submit my offer to execute the work as per tender documents at the rates quoted by me in capacity as of _____.

4. I further declare that if I am allotted the work and I failed to carry out the allotted work in accordance with the terms and conditions and within the time prescribed and specified, _____ N N A is entitled to carry out the work allotted to me by any other means at my risk and cost, at any stage of the contract.

5. I also declare that I will not claim any charge/damages/compensation for non-availability of site for the contract work at any time.

6. I declare that I will positively make the arrangements of the required equipment on the day of commencement or with respect to the progress of the work in phases, as per the instructions of site in charge

Signature of Tenderer/Bidder

Annexure - III

BANK GUARANTEE BOND FOR PERFORMANCE WARRANTY

(To be executed by the State Bank of India or any other scheduled Bank recommended by Reserve Bank of India on non-judicial stamp paper)

To

<Signing Authority>

Dear Sir/Madam,

Sub: Your Contract No.

dated _____

for _____

1. You, on behalf of the Authority, have entered into a contract with reference no as given above with _____ (herein after referred to as the contractor) for the development, fabrication and supply of _____ (herein after referred to as stores) for the price and on the terms and conditions contained in the said contract.
2. In accordance with the terms of said contract the contractor has undertaken to produce a bank guarantee for Rs. _____ (Rupees _____ only) being _____ % of the total value of the said stores supplied to you, for the due fulfilment of its obligations to the Authority for due performance as per the contract during warranty period.
3. In consideration thereof, we hereby expressly, irrevocably and unconditionally undertake and guarantee as principal obligors on behalf of the contractor that in the event that the Authority submits a written demand to us that the contractor has not performed according to the contractual obligations included in the said contract, we will pay you on written demand, without demur and without reference to the contractor any sum up to a maximum amount of Rs _____ (Rupees _____ only). Your demand shall be conclusive evidence to us that such repayment is due under the terms of the said contract. Payment by us to you will be made within thirty (30) days from receipt of your written request making reference to this guarantee and on demand.
4. This guarantee shall not be revoked without your express consent and shall not be affected by your granting any indulgence to the contractor, which shall include but not be limited to postponement from time to time of the exercise of any powers vested in you or any right which you may have against the contractor and to exercise the same in any manner at any time and either to forbear or to enforce any covenant contained or implied in the said contract or any other course or remedy or security available to you, and our Bank shall not

be released from its obligations under this guarantee by your exercising any of your rights with reference to matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on your part or any other indulgence shown by you or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving our Bank from its obligation under this guarantee.

5. Notwithstanding anything herein contained, our liability under this guarantee is restricted to Rs _____ (Rupees _____ only) and the guarantee shall remain in force up to and including the _____ day of being reported to us by you and returned to us duly discharged.
6. Unless a demand or claim under this guarantee is made on us in writing on or before the aforesaid expiry date as provided above or unless this guarantee is extended by us all your rights under this guarantee shall be proscribed and we shall be discharge from the liabilities hereunder.
7. This guarantee shall not be affected by any change in the constitution of our Bank or of the contractor or for any other reason whatsoever.

Date:

Sd.....

Place:

Bankers

Seal of the Bank

Witness:

1.

2.

Annexure – IV

(The authorized dealers and his principal shall submit the MOU/Authorisation letter on Rs.500/-Stamp Paper.)

Sub: Tender for Supply Fabrication Testing and Commissioning of _____ nos. Septage Dewatering Vehicles & along with operation and maintenance.

Dear Sir,

We are established and reputed manufacturer of Vehicle mounted machines i.e. Mudsucker, Jetting Machines, Sewer Cleaning Machinery & Drain cleaning Machinery, etc do hereby say that.

- a) **M/s.** _____ having their address _____, are our authorized dealers and we have authorized them to represent us to tender, negotiate and conclude the contract for the above goods, manufactured by us, with you for the above tender.
- b) We will accept the responsibility for the satisfactory execution of orders placed on the above said authorized dealers.
- c) We will provide requisite inspection and testing facilities as and when required by NNA at our factories in respect of orders placed on said authorized dealers.
- e) The challan prepared by the dealers would be accompanied by a certificate from us certifying that the stores covered under the challan have been manufactured by us.
- g) We will be responsible for the contractual obligations related to quality aspects, replacement of items, making available sufficient quantity as and when required & also promise to provide all the technical support & after sales service during entire contract period.

Our details are as under:

- i) Business Address :-
- ii) Reg. Office Address :-
- iii) Location of Manufacturing Unit :-
- iv) Tel. No. :-
- iv) e-mail ID :-
- v) Fax No. :-

Yours Faithfully,

Name of Manufacturer

Authorised Signatory

Annexure – V

[Company Name]			
Profit and Loss (P&L) Statement			
[INR Lakhs]			
	FY 2018-19	FY 2019-20	FY 2020-21
Revenue stream 1			
Revenue stream 2			
Returns, Refunds, Discounts			
Total Net Revenue			
Cost of Goods Sold			
Gross Profit			
Expenses			
Advertising & Promotion			
Depreciation & Amortization			
Insurance			
Maintenance			
Office Supplies			
Rent			
Salaries, Benefits & Wages			
Telecommunication			
Travel			
Utilities			
Other Expense 1			
Other Expense 2			
Total Expenses			
Earnings Before Interest & Taxes			
Interest Expense			
Earnings Before Taxes			
Income Taxes			
Net Earnings			

Annexure – VI

(The bidder shall give undertaking on Rs.500/- stamp paper that it is his/their sole responsibility to arrange the required infrastructure before start of the work)

UNDERTAKING

I, _____ of _____, do hereby declared and undertake as under.

1. I declare that it will be my sole responsibility to arrange the required infrastructure (including civil works for lime stabilization unit, tool shed and machine maintenance dock etc.) before commencing the work as prescribed in this tender document.

Signature of Tenderer/Bidder

PROFORMAS

PROFORMA –I

S.No.	Name of the Project	Name of the Employee	Stipulated Date of Completion	Actual date of Completion	Actual Cost of Work Done	Actual Cost of work at completion rate of 10% per annum
1	2	3	4	5	6	7

Note:-

1. Scanned Attested copies of completion/performance certificates from the Engineer-in-charge/H.O.D./Competent Authority for each work should be annexed in the support of information furnished in the above proforma.
2. Work shall be grouped financial year-wise.

PROFORMA –II

Yearly turnover of works during last three years

Sr.No.	Financial Year	Actual Turnover of the Works	Updated value to current year	Average of last three years	Average of last three Years at compound rate of 10% per annum	Page No.
1	2	3	4	5	6	7

NOTE: The above figures shall tally with the audited balance sheets uploaded by the tenderers and shall be duly certified by Chartered Accountant.

PROFORMA III

At least similar works as stated in Para "A" of Post Qualification

Sr.No	Name of the Project	Name of the Employer	Cost of the Project	Date of issue of Work Order	Stipulated Date of Completion	Actual date of Completion	Remarks explaining reasons for delay if any
1	2	3	4	5	6	7	8

Note: Scanned Attested copies of completion/performance certificates from the Engineer-in-Charge

/H.O.D./Competent Authority for each work should be annexed in the support of information furnished in the above proforma.

PersonnelPROFORMA –IV

ProfileofKeyStaff

A detailed profile of the following key staff (minimum 2 in each category) is to be enclosed along with the Technical document (Bidders should take photocopies of this appendix and submit separate sheets for each of the key staff):

- Supervisor
- Driver
- Operator
- Mechanic
- Labour

The details to be furnished of the key staff are as follows:

Sr.No.	Post	Name	Qualification	Work Experience	
				Prime Candidate /Alternative	No. of Years Name of projects
1					
2					
3					
4					

Support team for Days

NOTE: Scanned Attested copies of qualification certificates and details of work experiences shall be submitted/uploaded.

PROFORMA-V(Machinery)

DELETED

PROFORMA-VIA

Place	Contract no.&date	Name&Address of the employer	Value of the contract in Rs.	Schedule date of completion	Value of remaining work to be completed	Anticipate date of completion

PROFORMA-VI/B

Description of work	Place	Name & Address of the employer	Value of the contract in Rs.	Time Period	Date on which decision is expected	Remarks

Note: Scanned Attested copies of completion/performance certificates from the Engineer-in-Charge/H.O.D./Competent Authority for each work should be annexed in the support of information furnished in the above proforma.

PROFORMA–VII(EquipmentCapability)

I, of _____, do hereby declared and undertake as under.

1. Sufficient manpower and machinery would be utilised for timely delivery of the genuine material as per technical specification to the designated delivery address or as directed by _____ NNA and under no circumstance any claim would be made regarding insufficient manpower and machinery during currency of the contract.

PROFORMA-VIII

(Technical Sheet to be filled by the tenderer).

SR. NO.	TECHNICAL DETAILS of Septage Dewatering	TENDERERS DETAILED COMMENTS
1	Make of chassis	
2	Model of chassis	
3	Engine type and horsepower	
4	Clutch type	
5	Gear Box type and model	
6	Fuel tank capacity	
7	Wheelbase	
8	Battery make & capacity	
9	Tyre size and nos.	
10	Type and make of steering	
11	GVW	
12	Types of tools supplied with chassis	
13	Writing of departmental name	
14	Make of PTO	
15	Make of Vacuum pump	
16	Make of Sludge pump	
17	Make of Low discharge high pressure jetting pump	
18	Make of Polymer pump	
19	Make of Hydraulic Pump	
20	Make of Hydraulic cylinders for tipping & Rear door opening.	
21	Make of Hydraulic Motors	

Tenderers Signature & Official Stamp