

BRIHANMUMBAI MUNICIPAL CORPORATION



E-TENDER

for

Name of Work: **Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department.**

(Tender-ID: 2024_MCGM_1124479).

BID DOCUMENT

Website: **www.mahatenders.gov.in**

Office of:-

Chief Engineer (Sewerage Operation)
Engineering Hub Building,
Dr. E. Moses Road,
Worli Naka, Worli,
Mumbai- 400 018.

Prepared by

Checked by

Proposed by

Recommended by

Sd/-

Sd/-

Sd/-

Sd/-

S.E.M.S.(W/S)

A.E.M.S.(W/S)

E.E.Mech.(MS)City

Dy.Ch.E.(SO)PMS(City)

Approved by

Sd/-

Ch.Eng.(S.O.)

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SECTION 1

E-TENDER NOTICE

BRIHANMUMBAI MUNICIPAL CORPORATION

Department: Chief engineer (Sewerage Operation)

e-TENDER NOTICE

**Sub :- Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department.
(Tender-ID-2024_MCGM_1124479).**

The Brihanmumbai Municipal Corporation (BMC) invites e-tender to appoint Contractor for the aforementioned work from contractors of repute, multidisciplinary engineering organizations i.e. eminent firm, Proprietary/Partnership Firms/ Private Limited Companies/ Public Limited Companies/Companies registered under the Indian companies' act 2013, the contractors registered with the Brihanmumbai Municipal Corporation (BMC) in Class A and above as per new registration in Mechanical or Electrical Category and from the contractors/firms equivalent and superior classes registered in Central or State Government/Semi Govt. Organization/Central or State Public Sector Undertakings, will be allowed subject to condition that, the contractors who are not registered with BMC will have to apply for registering their firm within three months from the date of issue of work order, otherwise their Bid Security i.e. E.M.D (Earnest Money Deposit) will be forfeited/recovered and an amount equal to Registration fee of respective Class shall be recovered as penalty. Bidding Process will comprise of THREE stages.

The application form can be downloaded from e-procurement system of Government of Maharashtra (Mahatenders) (<https://mahatenders.gov.in>). The Tender fees amounting to **Rs. 16,500/- + 18% GST (9% CGST + 9% SGST)** will be applicable for subject tender. The tender scrutiny fee should be paid in cash only at any of the CFC centres in BMC Ward Offices after opening Packet-A & Packet-B but before opening of Packet C. The applicants not registered with BMC are mandated to get registered (Vendor Registration) with BMC for e-tendering process also with Mahatenders & obtain login credentials to participate in the online bidding process.

- i) To download the application form, for those applicants not having vendor registration, need to apply first for vendor registration at the office of Account Officer (FAR), 3rd floor, Municipal Headquarter.
- ii) Followed by Mahatenders login ID and password to be obtained from Mahatender portal <https://mahatenders.gov.in>

iii) For e-Tendering registration, enrolment for digital signature certificates and user manual, please refer to respective links provided in Mahatenders 'Tenders' tab such as <https://cca.gov.in>. Vendors can get digital signature from any one of the Certifying Authorities (CA's) licensed by controller of certifying authorities namely, Safes crypt, IDRBT, National informatics centre, TCS, CUSTOMS, MTNL, GNFC, e- Mudhra CA.

Name of Work	Contract Period	Estimated Cost of Project
<p align="center">Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department.</p>	<p>Supply: 08 (Eight) Months from date of receipt of PO for supply O&CM: 01 (One) Year from the date of receipt of PO for O&CM</p>	<p align="center">Item Rate Tender</p>

In terms of the 3 stage system of e-tendering, a Bidder will be required to deposit, along with its Bid, an Earnest Money Deposit of (the "EMD") of **Rs. 8,26,000/- (Eight Lakh Twenty Six Thousands only)** refundable in accordance to the relevant clause of bid document, from the Bid Due Date, except in the case of the selected Bidder whose Bid Security / EMD shall be retained.

The Bidder shall pay the Earnest Money Deposit (EMD) through payment gateways of GoM on URL <https://mahatender.gov.in> while submitting the bids. The Bid shall be summarily rejected if it is not accompanied by the Earnest Money Deposit. The e-tender is available on e-procurement system of Government of Maharashtra Mahatenders portal <https://mahatenders.gov.in> as mentioned in the Header Data of the tender.

As per THREE Packet systems, the document for Packet 'A' & 'B' is to be uploaded online by the bidder in Cover Type 'Fee / Pre-Qual / Technical' and Price Packet 'C' is to be uploaded in Cover Type 'Finance'. The Packet 'A', 'B' and 'C' shall be opened on dates as mentioned in header data. All the responsive and eligible bidders if they so wish can be present at the time of opening of bids, in the office of Executive Engineer Mech.(M.S)City. The Price Packet 'C' (Cover Type 'Finance') shall be opened if bids submission in Packet 'A' & 'B' satisfies/includes all the requirements and same are found acceptable to the Authority.

The Municipal Commissioner reserves the right to reject all or any of the e-tender(s) without assigning any reasons at any stage.

The dates and time for submission and opening the bids are as shown in the Header Data. If there are any changes in the dates the same will be displayed on the

e-procurement system of Government of Maharashtra (Mahatenders portal)
<https://mahatenders.gov.in>.

The Applicants interested for the above referred works may contact the office of Dy.Chief Engineer. (Sewerage Operations)P&MS Cityat the following address on any working day during office hours.

Office of: Dy. Chief Engineer (Sewerage Operations)P&MS(City), BMC,
2nd Floor Sewerage Operation Workshop, 121 Ramchandra Bhatt Marg,
Dongri Mumbai -400009.

The applicants may wish to visit the office reference located at-
Executive Engineer Mech.(M.S)City,
2nd Floor Sewerage Operation Workshop,
121, Ramchandra Bhatt Marg,

Dongri, Mumbai -400009, and can collect the information of the present status from the department who have invited the bids.

The BMC reserves the rights to accept any of the application or reject any or all the application received for above works, without assigning any reasons thereof. The information regarding above subject matter is available on e-procurement system of Government of Maharashtra (Mahatenders) (<https://mahatenders.gov.in>)

Bidders are also advised to refer “Bidders Manual Kit” available at [eProcurement System Government of Maharashtra \(mahatenders.gov.in\)](https://mahatenders.gov.in) for further details about the e-tendering process. For any help, in the e-Tendering process, can be availed by dialling help-desk number 022-22046934/22837339 from 11.30 AM to 5.00 PM on all working days. Email: support-eproc@nic.in.

Interested bidders should follow the manuals available on Mahatenders Portal <https://mahatenders.gov.in>.

Sd/-

Dy.Ch.E.(SO)PMS(City)

E-TENDER NOTICE

Mahatender Portal	https://mahatenders.gov.in
Tender ID	2024_MCGM_1124479
Name of Organization	Brihanmumbai Municipal Corporation
Subject	Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department.
Tender Scrutiny Fee	Rs. 16,500/- + (18% GST)
Cost of E-Tender (Estimated Cost)	Item Rate Tender
Bid Security Deposit/ EMD	Rs. 8,26,000/-
Date of issue and sale of tender	17.12.2024 from 11:00 Hrs
Last date & Time for sale of tender & Payment of EMD	06.01.2025 upto 16:00 Hrs
Submission of Packet A, B & Packet C Online	06.01.2025 upto 16:00 Hrs
Pre-Bid Meeting	24.12.2024 at 11:00 Hrs. At: Office of Chief Engineer (SO), 1st Floor Engineering Hub Building, Dr. E. Moses Road, Worli, Mumbai - 400 018.
Opening of Packet A	07.01.2025 after 16:10 Hrs
Opening of Packet B	07.01.2025 after 16:15 Hrs.
Opening of Packet C	14.01.2025 after 15:00 Hrs.
Address for communication	Office of- Dy. Chief Engineer (S.O)P&MS(City) 2 nd Floor Sewerage Operation Workshop, 121 Ramchandra Bhatt Marg, Dongri, Mumbai -400009
Venue for opening of bid	Executive Engineer Mech.(M.S)City, 2 nd Floor Sewerage Operation Workshop, 121 Ramchandra Bhatt Marg, Dongri, Mumbai -400009

This tender document is not transferable.

The BMC reserves the rights to accept any of the application or reject any or all the application received for above subject without assigning any reason thereof.

Sd/-
Dy.Ch.E.(SO)PMS(City)

SECTION 2

ELIGIBILITY CRITERIA

1.1. Technical Capacity

1. The Tenderer shall be an 'Original Equipment Manufacturer' or 'Authorized Dealer / Authorized Distributor of Original Equipment Manufacturer' of 'Sewer Cleaning Robo with various attachments to repair, cut & grab solid obstructions and deposits in sewer lines as specified in Technical Specifications of tender'. If the tenderer is manufacturer of 'Sewer Cleaning Robo with various attachments to repair, cut & grab solid obstructions and deposits in sewer lines as specified in Technical Specifications of tender', they shall submit Proforma for Manufacturer. If the tenderer is Authorized Dealer / Authorized Distributor of the Manufacturer of 'Sewer Cleaning Robo with various attachments to repair, cut & grab solid obstructions and deposits in sewer lines as specified in Technical Specifications of tender', they shall submit the Proforma for Authorized Dealer / Authorized Distributor from the manufacturer and MOU with the manufacturer as per given formats of the tender.
2. The tenderer(s) in their own name should have satisfactorily executed the work of similar nature MCGM /Semi Govt. /Govt. & Public Sector Organizations during last seven (7) years ending last day of month previous to the one in which bids are invited as a prime Contractor (or as a nominated sub-Contractor, where the subcontract had involved similar nature of work as described in the scope of works in this bid document, provided further that all other qualification criteria are satisfied)
 - a) **Three similar completed works each** of value not less than the value equal to **Rs. 1.65 Cr** of estimated cost put to tender **Or**
 - b) **Two similar completed works each** of value not less than the value equal to **Rs. 2.06 Cr.** of estimated cost put to tender **Or**
 - c) **One similar completed work** of value equal and or not less than the **Rs. 3.30 Cr.** of estimated cost put to tender.

Work of Similar Nature means- 'Supply / Operation & Maintenance / Supply, Operation & Maintenance' of 'Vehicle mounted Suction cum Jetting machine / Vehicle Mounted Recycler Machine' for cleaning of 'Sewer / Storm Water Drain (SWD)' lines.

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.

1.2. Financial Capacity

The average annual financial turnover of the firm shall be minimum **Rs. 2.48 Cr.** for last 3 financial years i.e., 2023-24, 2022-23 and 2021-22. The bidder shall submit the copy of certificate showing turnover certified by Chartered Accountant.

- To ascertain this, the tenderer(s) shall furnish/upload the financial statement (Audited Balance sheet & Profit Loss account statement) duly certified by Chartered Accountant.
- 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.
- Brihanmumbai Municipal Commissioner reserves right to accept any bid and annul the bidding process and/or reject all the bids at any time prior to award of the contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Employer's action.

B) Bid Capacity: (Not Applicable)

The bid capacity of the prospective bidders will be calculated as under: Assessed Available Bid Capacity = $(A * N * 2 - B)$

Where,

A = Maximum value of Civil Engineering works executed in any one year (year means Financial year) during the last five years (updated to the price level of the Financial year in which bids are received at a rate of 10% per year) taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of the Project/Works, excluding monsoon period, for which these bids are being invited. (e.g. 7 months = 7/12 year) For every intervening monsoon 0.33 shall be added to N.

B = Value of existing commitments (only allotted works) on the last date of submission of bids as per bidding document and on-going works to be completed during the period of completion of the Project/Works for which these bids are being invited.

Note: The statement showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be attached along with certificates duly signed by the Engineer-in Charge, not below the rank of an Executive Engineer or equivalent.

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

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

Sd/-
Dy.Ch.E.(SO)PMS(City)

SECTION 3

DISCLAIMER

DISCLAIMER

The information contained in this e-tender document or provided to Applicant(s), whether verbally or in documentary or any other form, by or on behalf of the Brihanmumbai Municipal Corporation (BMC), hereafter also referred as "The Authority", or any of its employees or advisors, is provided to Applicant(s) on the terms and conditions set out in this e-tender and such other terms and conditions subject to which such information is provided.

This e-tender includes statements, which reflect various assumptions and assessments arrived at by the Brihanmumbai Municipal Corporation (BMC) in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Applicant may require. This e-tender may not be appropriate for all persons, and it is not possible for the Brihanmumbai Municipal Corporation (BMC), its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this e-tender. The assumptions, assessments, statements and information contained in this e-tender 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 e-tender and obtain independent advice from appropriate sources.

Information provided in this e-tender 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 Brihanmumbai Municipal Corporation (BMC) accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed here.

The Brihanmumbai Municipal Corporation(BMC), its employees and advisors make no representation or warranty and shall have no liability to any person, including any applicant or Bidder, under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this e-tender or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the e-tender and any assessment, assumption, statement or information contained therein or

deemed to form part of this e-tender or arising in any way with pre-qualification of Applicants for participation in the Bidding Process. The Brihanmumbai Municipal Corporation (BMC) also accepts no liability of any nature whether resulting from negligence or there wise howsoever caused arising from reliance of any Applicant upon the statements contained in this e-tender.

The Brihanmumbai Municipal Corporation (BMC) 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 e-tender.

The issue of this e-tender does not imply that the Brihanmumbai Municipal Corporation (BMC) is bound to select and short-list pre-qualified Applications for Bid Stage or to appoint the selected Bidder or Concessionaire, as the case may be, for the Project and the Brihanmumbai Municipal Corporation (BMC) reserves the right to reject all or any of the Applications or Bids without assigning any reasons whatsoever.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Application including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by The Brihanmumbai Municipal Corporation (BMC) or any other costs incurred in connection with or relating to its Application. All such costs and expenses will remain with the Applicant and the Brihanmumbai Municipal Corporation(BMC) 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 Application, regardless of the conduct or outcome of the Bidding Process.

SECTION 4

INTRODUCTION

INTRODUCTION

1. Background:

The Brihanmumbai Municipal Corporation covers an area of 437.71sq.kms.with a population of **1.24 Crores as per census of 2011**. The metropolis accounts major portion of India's international trade and government's revenue, from being one of the foremost centres of education, science and technological research and advancement.

The Mumbai Metropolis has historic tradition of strong civic activism dedicated to the cause of a better life for all its citizens. And it's the Brihanmumbai Municipal Corporation(BMC), hereafter called the "corporation", the primary agency responsible for urban governance in Greater Mumbai.

BMC (The Authority) is one of the largest local self-governments in the Asian Continent. In observance of historic traditions of strong civic activism, with the change in time and living conditions to match with the urbanization, BMC has mainly focused in providing almost all kinds of engineering services viz, Hydraulics, storm water drain, sewerage, water supply projects, roads, bridges, solid waste management, and environmental services. Beside this, the BMC is also providing dedicated services in various segments such as Health, Primary Education as well as the construction and maintenance of Public Markets and Slaughter Houses.

BMC is an organization having different departments, right from engineering depts. to health depts. Moreover we have other dept. like education, market, fire brigade dept., Octroi and other such departments where quite a good number of staff members are working.

2. Scope of Work:

BMC is primarily an organization, which in the interest of citizens and with the speed of urbanization deals with the variety of the infrastructure services and delivered to the public by different departments like Water Supply Projects, Sewerage Projects, Hydraulics, Storm Water Drain/Roads and bridges and Building Construction etc.

The present tender called upon by Chief Engineer (Sewerage Operations) consists of following Scope of work as mentioned below:-

Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department.

SECTION 5

E-TENDERING ONLINE SUBMISSION PROCESS

E-TENDERING ONLINE SUBMISSION PROCESS

The terminology of e-Tendering is solely depending upon policies in existence, guidelines and methodology adopted since decades. The e-Procurement System of Government of Maharashtra (Mahatenders) is only change in process of accepting and evaluation of tenders in addition to manual.

NOTE: This tendering process is covered under Information Technology ACT & Cyber Laws as applicable

- I. In e-tendering process some of the terms and its definitions are to be read as under wherever it reflects in online tendering process.

Start Date read as “Sale Date”

End Date read as “Submission Date”

Supplier read as “Contractor/bidder”

Vendor read as “Contractor/bidder”

Vendor Quotation read as “Contractors Bid/Offer”

Purchaser read as “Department/BMC”

- II. Before entering into the online tendering process, the bidders shall complete the registration process so as to get user ID for e-tendering links. For this the bidders can access through supply registration via e-procurement system of Government of Maharashtra (Mahatenders) i.e. <https://mahatenders.gov.in>

Interested bidders shall follow the manuals available on Mahatenders portal i.e. <http://mahatenders.gov.in>

- III. E-Tendering Process

1. Tender Forms can be downloaded from e - Procurement system of Government of Maharashtra i.e. <http://mahatenders.gov.in> after entering the details of payment toward Tender Fees as per the Header Data / tender notice.
2. The tender submitted by the tenderer shall be based on clarification, additional facility issued (if any) by the BMC, and this tender shall be unconditional. Conditional tenders will be summarily REJECTED.
3. All tenderers are cautioned that the tenders containing any deviation, from the contractual terms and conditions, specifications or other requirements, and conditional tenders will be rejected as non- responsive.
4. Tenderer should have valid class III digital signature certificates (DSC) obtained from any certifying Authorities. In case of requirements of DSC, interested Bidders should go

- to <https://mahatenders.gov.in>, information about DSC and follow the procedure mentioned in the document. Procedure for application of "Digital Signature Certificate".
5. Bidder should do Online Enrolment in e-procurement portal of Government of Maharashtra i.e. <https://mahatenders.gov.in> using the option Click Here to Enroll available in the Home Page. Then the Digital Signature enrolment has to be done with the e -token, after logging into the portal. The e-token may be obtained from one of the authorized Certifying Authorities such as e-Mudhra CA /GNFC IDRBT MTNL Trust line /SafeScript /TCS.
 6. Bidder then logs into the portal giving user id / password chosen during enrolment.
 7. The e-token that is registered should be used by the bidder and should not be misused by others.
 8. DSC once mapped to an account cannot be remapped to any other account. It can only be inactivated.
 9. The Bidders can update well in advance, the documents such as certificates, purchase order details etc., under My Documents option and these can be selected as per tender requirements and then attached along with bid documents during bid submission. This will ensure lesser upload of bid documents.
 10. After downloading / getting the tender schedules, the Bidder should go through them carefully and then submit the documents as per the tender document, otherwise, the bid will be rejected.
 11. The BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for that tender. Bidders are allowed to enter the Bidder Name and Values only.
 12. If there are any clarifications, this may be obtained online through the e-Procurement Portal, or through the contact details given in the tender document. Bidder should take into account of the corrigendum published before submitting the bids online.
 13. Bidder, in advance, should prepare the bid documents to be submitted as indicated in the Header Data and they should be in PDF/XLS/RAR/DW F formats. If there is more than one document, they can be clubbed together.
 14. Bidder should arrange for the EMD as specified in the tender.
 15. The bidder reads the terms and conditions and accepts the same to proceed further to submit the bids.
 16. The bidder has to submit the tender document (s) online well in advance before the prescribed time to avoid any delay or problem during the bid submission process.

17. There is no limit on the size of the file uploaded at the server end. However, the upload is decided on the Memory available at the Client System as well as the Network bandwidth available at the client side at that point of time. In order to reduce the file size, bidders are suggested to scan the documents in 75-100 DPI so that the clarity is maintained and also the size of file also gets reduced. This will help in quick uploading even at very low bandwidth speeds
18. It is important to note that, the bidder has to Click on the Freeze Bid Button, to ensure that he/she completes the Bid Submission Process. Bids which are not Frozen are considered as Incomplete /Invalid bids and are not considered for evaluation purposes.
19. The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.
20. The bidder may submit the bid documents online mode only, through this portal. Offline documents will not be handled through this system.
21. At the time of freezing the bid, the e-Procurement system will give a successful bid updating message after uploading all the bid documents submitted and then a bid summary will be shown with the bid no, date & time of submission of the bid with all other relevant details. The documents submitted by the bidders will be digitally signed using the e-token of the bidder and then submitted.
22. After the bid submission, the bid summary has to be printed and kept as an acknowledgement as a token of the submission of the bid. The bid summary will act as a proof of bid submission for a tender floated and will also act as an entry point to participate in the bid opening event.
23. Successful bid submission from the system means, the bids as uploaded by the bidder is received and stored in the system. System does not certify for its correctness.
24. The bidder should see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is liable to be rejected.
25. The time that is displayed from the server clock at the top of the tender Portal, will be valid for all actions of requesting bid submission, bid opening etc., in the e-Procurement portal. The Time followed in this portal is as per Indian Standard Time (IST) which is GMT+5:30. The bidders should adhere to this time during bid submission.
26. All the data being entered by the bidders would be encrypted at the client end, and the software uses PKI encryption techniques to ensure the secrecy of the data. The data entered will not be viewable by unauthorized persons during bid submission and not

viewable by any one until the time of bid opening. Overall, the submitted bid documents become readable only after the tender opening by the authorized individual.

27. During transmission of bid document, the confidentiality of the bids is maintained since the data is transferred over Secured Socket Layer (SSL) with 256 bit encryption technology. Data encryption of sensitive fields is also done.
 28. The bidders are requested to submit the bids through online e-Procurement system to the TIA well before the bid submission end date and time (as per Server System Clock).
 29. Bidder Manual Kit available on website <https://mahatenders.gov.in> for online payment of Tender Fee and EMD, submission of tender Packet 'A', 'B' and 'C', etc.
- IV. As per Three Packet system, the document for Techno-commercial Packet 'A' & 'B' are to be uploaded online by the bidder in Cover Type 'Fee/PreQual/Technical' and Price Packet 'C' is to be uploaded in Cover Type 'Finance' by the tenderer under 'Tender Covers'.
- V. The tenderer shall pay the EMD/Bid Security through payment gateways before submission of Bid and shall upload the screenshot of receipt of payment in Packet 'A' as per bidding schedule.
- VI. The e-tender is available on e-procurement system of Government of Maharashtra (Mahatenders) i.e. <https://mahatenders.gov.in>. The tenders duly filled in should be uploaded and submitted online on or before the end date of submission. The Packet 'A', Packet 'B' & Packet 'C' of the tenderer will be opened as per the time-table shown in the Header Data in the office of Ex.Eng.(Main Sewer)City.
- VII. The Municipal Commissioner reserves the right to reject all or any of the e-Tender(s) without assigning any reason at any stage. The dates and time for submission and opening the tenders are as shown in the Header Data. If there are any changes in the dates the same will be displayed on the e-procurement portal, Government of Maharashtra i.e. <https://mahatenders.gov.in>

SECTION 6

INSTRUCTIONS TO APPLICANTS

INSTRUCTIONS TO APPLICANTS

TENDERERS ARE REQUESTED TO GO THROUGH THE e- TENDER GUIDELINES ON NIC PORTAL (<https://mahatenders.gov.in>). For registration, enrolment for digital signature certificate & user manual, please refer to respective links provided in e-tendering tab. The vendors can get digital signature from any one of the Certifying Authorities (CA's) licensed by the Controller of Certifying Authorities namely Safes crypt, IDRBT, National Informatics Centre, TCS, Customs, MTNL, GNFC and e- Mudhra.

➤ **Scope of Application**

The Authority wishes to receive Applications for Qualification in order to SELECT experienced and capable Applicants for the Bid Stage.

➤ **Eligibility of Applicants**

The Brihanmumbai Municipal Corporation (BMC) invites e-tender to appoint Contractor for the aforementioned work from contractors of repute, multidisciplinary engineering organizations i.e. eminent firm, Proprietary/Partnership Firms/ Private Limited Companies/ Public Limited Companies/Companies registered under the Indian companies' act 2013, the contractors registered with the Municipal Corporation of Greater Mumbai, (BMC) in **Class A as per new registration in Mechanical or Electrical Category** and from the contractors/firms equivalent and superior classes registered in Central or State Government/Semi Govt. Organization/Central or State Public Sector Undertakings, will be allowed subject to condition that, the contractors who are not registered with BMC will have to apply for registering their firm within three months from the date of issue of work order, otherwise their Bid Security i.e. E.M.D (Earnest Money Deposit) will be forfeited/recovered and an amount equal to Registration Fee of respective class will be recovered as penalty. Bidding Process will comprise of THREE stages.

To be eligible for pre-qualification and short-listing, an Applicant shall fulfil the following conditions of eligibility

1.1. Technical Capacity

1. The Tenderer shall be an 'Original Equipment Manufacturer' or 'Authorized Dealer / Authorized Distributor of Original Equipment Manufacturer' of 'Sewer Cleaning Robo with various attachments to repair, cut & grab solid obstructions and deposits in sewer lines as specified in Technical Specifications of tender'. If the tenderer is manufacturer of 'Sewer Cleaning Robo with various attachments to repair, cut & grab solid obstructions and deposits in sewer lines as specified in Technical Specifications of tender', they shall submit Proforma

for Manufacturer. If the tenderer is Authorized Dealer / Authorized Distributor of the Manufacturer of 'Sewer Cleaning Robo with various attachments to repair, cut & grab solid obstructions and deposits in sewer lines as specified in Technical Specifications of tender', they shall submit the Proforma for Authorized Dealer / Authorized Distributor from the manufacturer and MOU with the manufacturer as per given formats of the tender.

2. The tenderer(s) in their own name should have satisfactorily executed the work of similar nature MCGM /Semi Govt. /Govt. & Public Sector Organizations during last seven (7) years ending last day of month previous to the one in which bids are invited as a prime Contractor (or as a nominated sub-Contractor, where the subcontract had involved similar nature of work as described in the scope of works in this bid document, provided further that all other qualification criteria are satisfied)
 - a) **Three similar completed works each** of value not less than the value equal to **Rs. 1.65 Cr** of estimated cost put to tender **Or**
 - b) **Two similar completed works each** of value not less than the value equal to **Rs. 2.06 Cr.** of estimated cost put to tender **Or**
 - c) **One similar completed work** of value equal and or not less than the **Rs. 3.30 Cr.** of estimated cost put to tender.

Work of Similar Nature means- 'Supply / Operation & Maintenance / Supply, Operation & Maintenance' of 'Vehicle mounted Suction cum Jetting machine / Vehicle Mounted Recycler Machine' for cleaning of 'Sewer / Storm Water Drain (SWD)' lines.

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.

1.2. Financial Capacity

The average annual financial turnover of the firm shall be minimum **Rs. 2.48 Cr.** for last 3 financial years i.e., 2023-24, 2022-23 and 2021-22. The bidder shall submit the copy of certificate showing turnover certified by Chartered Accountant.

- To ascertain this, the tenderer(s) shall furnish/upload the financial statement (Audited Balance sheet & Profit Loss account statement) duly certified by Charter Accountant.
- 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.
- Brihanmumbai Municipal Commissioner reserves right to accept any bid and annul the bidding process and/or reject all the bids at any time prior to award of the contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Employer's action.

D. Equipments Capabilities as required for this work-

The successful bidder will 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. The successful bidder and, to that effect he will ensure commitment on an undertaking on Rs.500 stamp paper to be submitted along with the Bid in Packet B. However, this condition in no way shall dilute the respective condition in Registration Rules of BMC. The bidder shall provide details of the proposed machinery in **Proforma-V** of this document.

Note:-

1. Bidders shall submit the undertaking for equipment capability and other undertakings as such on a single Rs.500/- stamp paper.

E. Technical Personnel:

The contractor and/or its managerial staff should have qualification/experience appropriate to the function they fulfill. The minimum standard shall be increased by asking that at least one number or more of the contractor or its managerial staff have acquired qualifications or work experience to the needs of the contract. The minimum standard may also state that the person or persons responsible for managing the works must have a minimum of no's of years' experience working on similar nature of projects.

For fixing requirement of Technical Staff as required for this work.

(A) General Guidelines for Fixing Requirement of Technical Staff-(Not applicable)

Cost of work (Rs in Crore)	Requirement of Technical Staff		Minimum Experience (years)	Designation
	Qualification	Number		
10 to 20	i) Project Manager with degree in corresponding discipline of Engineering	1	10	Principal Technical Representative
	ii) Graduate Engineer	1	5	Technical Representative
	iii) Graduate Engineer or Diploma Engineer	2	2	Project/Site Engineer and Project Planning/ Billing Engineer
			2	5
5 to 10	i) Graduate Engineer	1	5	Principal Technical Representative
	ii) Graduate Engineer or Diploma Engineer	2	2	Project/Site Engineer
		2	5	Billing Engineer

1.5 to 5	i) Graduate Engineer	1	5	Principal Technical Representative Project/Site Engineer
	ii) Graduate Engineer or Diploma Engineer	1	2	
			1	5
Upto 1.5	i) Graduate Engineer or Diploma Engineer	1	2	Principal Technical Representative
		1	5	Project/Site Engineer Billing Engineer

Notes – 1. “Cost of work” in the table above shall mean the agreement amount of work

1. Rate of recovery in case of non-compliance of the clause be stipulated at following rates:-

Sr.No.	Qualification	Experience(years)	Rate of Recovery
1	Project manager with Degree	10	Rs.30000/- p.m
2	Graduate Engineer	5	Rs.25000/-p.m.
3	Graduate Engineer	2	Rs.15000/-p.m.
4	Diploma Engineer	5	Rs.15000/-p.m.

3. Nothing extra need to be added while preparing market rate justified amount of the work if stipulation is made as per above recommended scale of technical staff.
4. Requirement of technical staff and their experience can be varied depending upon nature of work by competent authority i.e. Chief Engineer with recorded reasons.

F) TIME PERIOD OF THE PROJECT:

Supply: 08 (Eight) Months from date of receipt of PO for supply.

Operation & Comp. Maintenance: 01 (One) Year from the date of receipt of PO for O&CM.

The programme for completion of work shall be a part of the Contract Document in the form of Bar Chart / Gantt chart. The Contractor is supposed to carry out the work and keep the progress as per Bar Chart/GANTT Chart. The Contractor shall complete the work as per the Schedule given in the Contract and the programme submitted by the Contractor. (Not applicable)

G) Contract Execution

All required documents for execution of the contract shall be submitted within 30 days from the date of issue of letter of acceptance. If the documents are not submitted within the stipulated time, a penalty of Rs 5000/- per day will be applicable to the contractor. All contract documents need to be

duly affixed with stamp duty properly signed along with evidence/proof of payment of security/contract deposit/ within 30 days from the date of letter of acceptance received by him.

H) If the amount of the Contract Deposit to be paid above is not paid within 30 days from the date of issue of Letter of Acceptance, the Tender / Contractor already accepted shall be considered as cancelled and legal steps shall be taken against the contractor for recovery of the amounts.

I) The amount of Security Deposit retained by the BMC shall be released after expiry of period up to which the contractor has agreed to maintain the work in good order is over. In the event of the contractor failing or neglecting to complete the rectification work within the period up to which the contractor has agreed to maintain the work in good order, the amount of security deposit retained by BMC shall be adjusted towards the excess cost incurred by the Department on rectification work.

J) Action when whole of security deposit is forfeited:

In any case in which under any Clause of this contract, the contractor shall have rendered himself liable to pay compensation amounting to the whole of this security deposit whether paid in one sum or deducted by instalments or in the case of abandonment of the work owing to serious illness or death of the contractor or any other cause, the Engineer on behalf of the Municipal Commissioner shall have power to adopt any of the following process, as he may deem best suited to the interest of BMC -

- a) To rescind the contract (for which recession notice in writing to the contractor under the head of Executive Engineer shall be conclusive evidence) and in that case, the security deposit of the contract shall stand forfeited and be absolutely at the disposal of BMC.
- b) To carry out the work or any part of the work departmentally debiting the contractor with the cost of the work, expenditure incurred on tools and plant, and charges on additional supervisory staff including the cost of work-charged establishment employed for getting the un-executed part of the work completed and crediting him with the value of the work done departmentally in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Executive Engineer as to the costs and other allied expenses so incurred and as to the value of the work so done departmentally shall be final and conclusive against the contractor.
- c) To order that the work of the contractor be measured up and to take such part thereof as shall be un-executed out of his hands, and to give it to another contractor to complete, in which case all

expenses incurred on advertisement for fixing a new contracting agency, additional supervisory staff including the cost of work charged establishment and the cost of the work executed by the new contract agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and at the same rates as if it had been carried out by the Contractor under the terms of his contract. The certificate of the Executive Engineer as to all the cost of the work and other expenses incurred as aforesaid for or in getting the un-executed work done by the new contractor and as to the value of the work so done shall be final and conclusive against the contractor.

In case the contract shall be rescinded under Clause (a) above, the contractor shall not be entitled to recover or be paid any sum for any work therefore actually performed by him under this contract unless and until the Executive Engineer shall have certified in writing the performance of such work and the amount payable to him in respect thereof and he shall only be entitled to be paid the amount so certified. In the event of either of the courses referred to in Clause (b) or (c) being adopted and the cost of the work executed departmentally or through a new contractor and other allied expenses exceeding the value of such work credited to the contractors amount of excess shall be deducted from any money due to the contractor, by BMC under the contract or otherwise, howsoever, or from his security deposit or the sale proceeds thereof provided, however, the contractor shall have no claim against BMC even if the certified value of the work done departmentally or through a new contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the three courses mentioned in clauses (a), (b) or (c) is adopted by the Executive Engineer, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchase or procured any materials or entered in to any engagements or made any advance on account of or with a view to the execution of the work or the performance of the contract.

K) Contract may be rescinded and security deposit forfeited for bribing a public officer or if contractor becomes insolvent

If the contractor assigns or sublets his contracts or attempt so to do, or become insolvent or commence any proceeding to get himself adjudicated and insolvent or make any composition with his creditors, or attempt so to do or if bribe, gratuity, gift, loan, perquisite, reward or advantage, pecuniary or otherwise, shall either directly or indirectly be given promised or offered by the contractor or any of his servants or agents through any public officer, or person in the employ of BMC/Govt. in anyway relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract the Engineer In-charge may thereupon, by notice in writing rescind the contract and the Security Deposit of the Contractor shall thereupon stand forfeited and be absolutely at the disposal of BMC and the same

consequences shall ensure as if the contract had been rescinded under above clause J hereof; and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract.

➤ **Submission of Tenders**

As per Three Packet system, the document for Techno-commercial Packet 'A' & 'B' are to be uploaded online by the bidder in Cover Type 'Fee/Pre-Qual/Technical'

PACKET - A

The Packet 'A' shall contain scanned certified copies of the following documents. Scrutiny of this packet will be done strictly with reference to only the scanned copies of Documents uploaded online in packet 'A'

- a) Valid Registration Certificate.
- b) **Valid Bank Solvency Certificate** of Minimum Solvency amount of **Rs.60 Lakh** as governed by Registration Rules in force for respective Class of Contractor for Civil and M&E works and issued by the bank from the approved list of banks not prior to 12 months of due date of tender.
- c) A document in support of Registration under Maharashtra Goods and Service Tax(GST).
- d) Certified copies of valid 'PAN' documents and photographs of the individuals, owners, Karta of Hindu undivided Family, firms, private limited companies, registered co-operative societies, partners of partnership firms and at least two Directors, if number of Directors are more than two in case of Private Limited Companies, as the case may be. However, in case of Public Limited companies, Semi Government Undertakings, Government Undertakings, no 'PAN' documents will be insisted.
- e) Latest Partnership Deed in case of Partnership firm duly registered with Chief Accountant (Treasury) of BMC.
- f) The registered Power of Attorney shall be submitted in the name of the person who is submitting the bid.

The bidders shall categorically provide their Email-ID in packet 'A'.

NOTE:

- If the tenderer(s) withdraw tender offer during the tender validity period, his entire E.M.D shall be forfeited.
- If it is found that the tenderer has not submitted required documents in Packet "A" then, the shortfalls will be communicated to the tenderer through e-mail only and compliance

required to be made within a time period of three working days otherwise they will be treated as non-responsive.

PACKET - B

The Packet 'B' shall contain scanned certified copies of the following documents -

- a) The list of similar type of works as stated in para 'A' of Post qualification successfully completed during the last seven years in prescribed proforma, in the role of prime contractor. Information furnished in the prescribed proforma (Proforma - I) shall be supported by the certificate duly self-attested. Documents stating that it has successfully completed during the last seven years at least one contract of similar works as stated in para 'A' of Post qualification.
- b) Annual financial turnover for preceding three financial years as certified by Chartered Accountant preceding the Financial Year in which bids are invited. 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. (Proforma - II)
- c) Documents stating that, it has access to or has available liquid assets, unencumbered assets, lines of credit and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements for the subject contract in the event of stoppage, start-up, or other delay in payment, of the minimum 15% of the cost of the work tendered for, net of the tenderer's commitment of other contracts (Certificate from Bankers / C.A./Financial Institution shall be accepted as an evidence).
- d) The bidder shall give undertaking on Rs 500/-stamp paper that it is his/their sole responsibility to arrange the required machineries either owned/on lease or hire basis, at site before start of the work.

1) Regular and Routine works:

The successful bidder shall 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. The successful bidder and, to that effect he will ensure commitment on an undertaking on Rs.500/- stamp paper to be submitted along with the Bid in Packet B. However, this condition in no way shall dilute the respective condition in Registration Rules of Brihanmumbai Municipal Corporation.

- 2) Details of works in hand and for which bid already submitted (Proforma VI-A & VI-B) (original), along with copies of work orders & attested copies of percentage of works completed or part thereof.**

- 3) Statement showing assessed available Bid Capacity.
- 4) The undertaking of Rs.500/- stamp paper as per the Proforma annexed in 'Annexure B&C'.

Note: Bidders shall submit the undertaking for equipment capability and other undertakings as such on a single Rs.500/- stamp paper.

- 5) The tenderers shall upload work plan as per the following outline: *(Not Applicable)*
 1. GANTT chart/ PERT/ CPM chart showing the completion of work within prescribed time period, considering major activities.
 2. Organizational set up envisaged by the contractors.
 3. Plant & equipment proposed to be deployed for this work.
 4. Site Offices and Laboratories proposed to be set up.
 5. A note on how the whole work will be carried out (work plan including methodology).
 6. Quality management plan.
 7. All the activities included in the Scope of Work shall be covered in the work plan.
- 6) Litigation history as per circular no. MGC/F/6565 dt. 25.09.2018.
- 7) If the Original Equipment Manufacturer is from outside India, then the corresponding company registration document or incorporation certificate from respective country duly notarized from the local notary where the firm has been registered shall be submitted in Packet 'B'.

Note:

- i) The Electrical / Mechanical work shall be got carried out by the civil contractors through the contractors registered with BMC in Electrical Category. Information about the registered contractors shall be obtained from the office of the Ch.E. (M&E)/ E.E. (Monitoring & Registration Cell). Attested scanned copy of the valid registration certificate in Electrical Category shall be uploaded with the tender along with the undertaking from the registered Electrical Contractor stating his willingness to carry out the tender work. *(Not Applicable)*
- ii) The successful bidder shall submit valid registration certificate under E.S.I.C., Act 1948, if the tenderer has more than 10 employees /persons on his establishment (in case of production by use of energy) and 20 employees/persons on his establishment (in case of production without use of energy) to BMC as and when demanded. In case of less employees/persons mentioned above then the successful bidder has to submit an undertaking to that effect on **Rs. 200/- stamp paper** as per circular u/no. CA/FRD/I/65 of 30.03.2013.
- iii) The successful bidder shall submit valid registration certificate under E.P.F. & M.P., Act 1952, if tenderer has more than 20 employees/persons on his establishment, to BMC as and when

demand. In case if the successful bidder has less employees/persons mentioned above then the successful bidder has to submit an undertaking to that effect on **Rs.200/- stamp paper** as per circular u/no. CA/FRD/I/44 of 04.01.2013.

Note:

- If it is found that the tenderer has not submitted required documents in Packet “B” then, the shortfalls will be communicated to the tenderer through e-mail only and compliance required to be made within a time period of **three working days** otherwise they will be treated as non-responsive.

PACKET - C

Price Packet ‘C’ is to be uploaded in Cover Type ‘Finance’ by the tenderer under ‘Tender Covers’.

Online tender filled in either percentage plus or minus (above or below), or at par. (There is no separate provision to quote % in physical form, this is a part in Header Data of online Tendering). For Packet ‘C’ tenderer(s) will fill data in ‘Item Data Tab’ in Service Line Item via Details and quotes his percentage variation figures. (If entered ‘0’ it will be treated as ‘at par’. By default the value is zero only

Note:In case of rebate/premium of 15% and above as quoted by the tenderer, the rate analysis of major items shall be submitted by L1 and L2 bidder after demand notification by e-mail to bidders by concerned Dy.Ch.Eng.(SO)P&MS(City). The format for rate analysis is annexed at Annexure D.

BID SECURITY OR EMD

- The Bidder shall furnish, as part of the Bid, Bid Security/EMD, in the amount specified in the Bid Data Sheet. This bid security shall be in favour of the authority mentioned in the Bid Data Sheet and shall be valid till the validity of the bid.
- The tenderers shall pay the EMD online instead of paying the EMD at any of the CFC centres in BMC Ward Offices.
- Any bid not accompanied by an acceptable Bid Security and not secured as indicated in sub-clause mentioned above, shall be rejected by the Employer as non-responsive.
- ~~As per circular no. CA(F)/Project/32 dt. 26.10.2010 (Refer Annexure ‘T’)~~
 - (a) ~~The Bid Security/EMD of the successful bidder will be discharged when the bidder has signed the agreement and furnished the required Security Deposits.~~

~~(b) The Bid Security/ EMD of L-3 and bidder shall be refunded immediately after opening of financial bid but, the EMD/ASD submitted by the L-2 bidder will be returned after obtaining Standing Committee Resolution.~~

~~(c) (e) In case, the successful bidder becomes non-responsive or successful bidder withdraws the bid or is unwilling to extend the bid validity period, in such circumstances, if L-2 bidder is agreeable to extend the bid validity period and ready to deposit the requisite amount of bid security/EMD and ASD to the department within the stipulated time period i.e. 15 days, the department will process further as per normal procedure.~~

- The Bid Security may be forfeited:
 - a. if the Bidder withdraws the Bid after bid opening (opening of technical qualification part of the bid during the period of Bid validity);
 - b. in the case of a successful Bidder, if the Bidder fails within the specified time limit to:
 - i. sign the Agreement; and/or
 - ii. Furnish the required Security Deposits.
- 1. The cases wherein if the shortfalls are not complied by a contractor, will be informed to Registration and Monitoring Cell. Such non-submission of documents will be considered as ‘**Intentional Avoidance**’ and if three or more cases in 12 months are reported, shall be viewed seriously and disciplinary action against the defaulters such as banning/de-registration, etc. shall be taken by the registration cell as governed by relative provision in Registration Rules of BMC and Standard General Conditions of Contract.
- 2. The Mode of payment / Refund / forfeiture of EMD shall be carried out as per Circular u/No. CA/Finance/Project/19/Dt. 04.03.2024 for ‘revised guidelines for payment of EMD for tenders to be uploaded on Mahatenders portal’ or latest circular issued related to EMD.

Note:

i) Curable Defect shall mean shortfalls in submission such as:

a) Non-submission of following documents,

- i. Valid Registration Certificate**
- ii. Valid Bank Solvency**
- iii. Goods & Service Tax Registration Certificate (GST)**
- iv. Certified Copies of PAN documents and photographs of individuals, owners, etc.**
- v. Partnership Deed and any other documents**
- vi. Undertakings as mentioned in the tender document.**

ii) **Non-curable Defect shall mean**

- a) **In-adequate submission of EMD/ ASD amount,**
- b) **In-adequacy of technical and financial capacity with respect to Eligibility criteria as stipulated in the tender.**
- c) **Wrong calculation of Bid Capacity,**
- d) **No proper submission of experience certificates and other documents, etc.**

BID VALIDITY

- **Bids shall remain valid for a period of not less than one eighty (180) days after the deadline date for bid submission specified in Bid Data Sheet. A bid valid for a shorter period shall be rejected by the Employer as non-responsive.**
- In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security for a period of the extension.

DEFECT LIABILITY PERIOD

- The Contractor is expected to carry out the construction work in Workmen like manner so as to meet the requirement and specification for the project. It is expected that the Workmanship and materials will be reasonably fit for the purpose for which they are required.
- Defects or defective work is where standard and quality of workmanship and materials as specified in the contract is deficient. Defect is defined as a failure of the completed project to satisfy the express or implied quality or quantity obligations of the construction contract. Defective construction works are as the works which fail short of complying with the express descriptions or requirements of the contract, especially any drawings or specifications with any implied terms and conditions as to its quality, workmanship, durability, aesthetic, performance or design. Defects in construction projects are attributable to various reasons.
- Some of the defects are structural defects results in cracks or collapse of faulty defective plumbing, inadequate or faulty drainage system, inadequate or faulty ventilation, cooling or heating systems, inadequate fire systems etc. The defects could be various on accounts of different reasons for variety of the projects.

- The Engineering In charge/Project Officer shall issue the practical completion certificate for the project. During the Defect Liability Period which commences on completion of the work, the Engineering In charge shall inform or the contractor is expected to be informed of any defective works by the Employer's representative of the defects and make good at contractor's cost with an intention of giving support System to the contractor of making good the defects appeared during that period. It is the contractor's obligation under the contract to rectify the defects that appear during Defect Liability Period and the contractor shall within a reasonable time after receipt of such instructions comply with the same at his own cost. The Engineering In charge/Project Officer shall issue a certificate to that effect and completion of making good defects shall be deemed for all the purpose of this contract to have taken place on the day named in such defect liability certificate.
- If defective work or workmanship or design have been knowingly covered-up or conceived so as to constitute fraud, commencement of the Defect Liability Period may be delayed. The decided period may be delayed until discover actually occurs on at least the defect could have been discovered with reasonable diligence, whichever is earlier.
- The Defect Liability Period shall be as given below :

Department	Type of Work	DLP
Sewerage Operation	Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department.	01 (One) Year

- Also, in case of defect, the Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at. The Defects Liability Period shall be extended for as long as Defects remain to be corrected. Every time notice of Defect/Defects is given, the Contractor shall correct the notified Defect/Defects within the duration of time specified by the Engineer's notice. The Engineer may issue notice to the Contractor to carry out removal of defects or deficiencies, if any, noticed in his inspection, or brought to his notice. The Contractor shall remove the defects and deficiencies within the period specified in the notice and submit to the Engineer a compliance report.
- It is the Completion Stage when the contractor has completed all of the works and fixed all of the defects that were on the list of issue by Engineer-in-charge. When this happens, the engineer must issue a 'Certificate of Completion'. On the issue of 'Certificate of Completion', the 'Defect Liability Period' starts. The contractor also must issue a 'Certificate statement' as

an acknowledgment to the engineer not later than 14 days after the 'Certificate of Completion' has been issued. During the 'Defect Liability Period', the contractor has to obey all written instructions from the engineer to carryout repairs and fix any defects which appear in the Permanent Works. If the contractor does not ,due to his own faults finish the repair works or fix the defects by the end of 'Defect Liability Period', the 'Defect Liability Period' will continue until all works instructed by engineer is done.

SECURITY DEPOSIT AND PERFORMANCE GUARANTEE

A. Security Deposit

The security deposit shall mean and comprise of

- I) Contract Deposit and
- II) Retention Money.

I) **Contract Deposit** - The successful tenderer, here after referred to as the contractor shall pay an amount equal to **two (2)** percent of the contract sum shall be paid within thirty days from the date of issue of letter of acceptance.

II) Retention Money (Not applicable)

The contractor shall pay the retention money an amount equal to **five (5)** percent of the Contract Sum which will be recovered from the contractors every bill i.e. interim / running / final bill. The clause of retention money will not be applicable M. & E. Department.

B. Additional Security Deposit (Not Applicable): Refer ASD circular at Annexure "L".

1. If the Lowest bidder quotes rebate less than 12% then the applicable additional security deposit (ASD) at the rate of 1% for each percentage quoted below 12% will not require to be paid online while submission of tender online.
2. After sanction/approval of competent authority to the contract cost, the lowest bidder shall deposit ASD in the Municipal Citizen Facility Centres in the form of demand draft as mentioned in Letter of Acceptance (LOA) within 15 working days as per prevailing practice and the receipt of the same shall be submitted to Head of department.
3. If the first lowest bidder will not paid ASD within 15 working days after issue of LOA, then the EMD paid by the concern company will be forfeited and the company will be debarred for two years, similarly if the director/partner of the company is also working in other company as a director/partner then said company will also be debarred for two years.

C. Performance Guarantee(Not Applicable)

The successful tender, here after referred to as the contractor shall pay in the form of “Performance Guarantee” at different rates for different slabs as stated below:

Offer	PG applicable %
For premium, at par and rebate 0 to 12%	PG= 0.92% x contract sum applicable for rebate of 12%
For rebate of 12.01% and more	P.G. = {0.92% x contract sum applicable for rebate of 12%} +(X) x contract sum where, X= percentage rebate quoted more than 12%

Note: Contract sum shall mean amount after application of rebate/premium as quoted by the contractor with contingencies only and excluding price variation.

The PG shall be paid in one the following forms.

- I) Cash (In case guarantee amount is less than Rs.10,000/-)
- II) Demand Draft (In case guarantee amount is less than Rs.1,00,000/-)
- III) Government securities
- IV) Fixed Deposit Receipts (FDR) of a Schedule Bank.
- V) An electronically issued irrevocable bank guarantee bond of any Schedule bank or in the prescribed form given in Annexure.

Performance Guarantee is applicable over and above the clause of Security Deposit. Performance Guarantee will have to be paid & shall be valid till the defect liability period or finalization of final bill whichever is later.

This deposit will be allowed in the form of I to V as mentioned above and shall be paid within 30 days after receipt of Letter of Acceptance.

Note: Following exceptions shall be adopted for ‘Demolition Tenders’:

- Irrespective of the offer (Rebate/ at par/ premium), ASD shall be differed and only PG of 10% of contract sum be taken from the successful bidder on award of contract only.
- BMC departments shall ensure to incorporate specific condition regarding above in bid document and e-tender notice.

D. Refund of Security Deposit

I. Refund of Contract Deposit

The Contract Deposit shall be released within 30 days after completion of 3rd year of DLP (in case of 5 years DLP) and after issue of ‘Defect Liability Certificate’ (in case of 1 or 2 or 3 year DLP) subject

to no recoveries are pending against the said work, provided that the Engineer is satisfied that there is no demand outstanding against the Contractor. No claim shall be made against the Balance Contract Deposit after the issue of Defects Liability Certificate.

II. Refund of Retention Money (Not applicable)

One-half (50%) of the Retention Money shall be released within 30 days of issue of ‘Certificate of Completion’ with respect to the whole of the Works. In the event the Engineer issues a Taking-over Certificate for a section or part of the Permanent Works, only such proposition thereof as the Engineer determines (having regard to the relative value of such section or part of the Works) shall be considered by the Engineer for payment to the Contractor.

The balance Retention Money shall be released within 30 days after completion of 3rd year of DLP (in case of 5 years DLP) and after issue of ‘Defect Liability Certificate’ (in case of 1 or 2 or 3 years DLP) provided that the Engineer is satisfied that there is no demand outstanding against the Contractor. In the event of different Defects Liability Periods have been specified or become applicable to different sections or parts of the Permanent Works, the said moneys will be released within 30 days on expiration of the latest of such Defects Liability Periods.

Otherwise, Balance one half (50%) of the retention money shall be released against submission of valid bank guarantee till defect liability period.

III. Refund of Additional Security Deposit(Not Applicable)

The additional security deposit shall be released within 30 days of issue of ‘Certificate of Completion’ with respect to the whole of the Works. In the event the Engineer issues a Taking-over Certificate for a section or part of the Permanent Works, only such proposition thereof as the Engineer determines (having regard to the relative value of such section or part of the Works) shall be considered by the Engineer for payment to the Contractor.

IV. Refund of Performance Guarantee(Not Applicable)

The Deposit on account of performance guarantee shall be released within 30 days of completion of Defects Liability Certificate subject finalization of final bill whichever is later and no recoveries are pending against the said work, provided that the Engineer is satisfied that there is no demand outstanding against the Contractor.

❖ Summary of time of Refund of deposit is tabulated as follows:

a) Time of Refund for works having 5 years DLP

Deposits refunded after Completion	After 3 yrs of DLP	After Completion of DLP
ASD + 50% of RM	CD+50% of RM	PG

- b) Time of Refund for works having 1 or 2 or 3 years DLP

Deposits refunded after completion	After Completion of DLP
ASD + 50% of RM	CD+50% of RM+PG

***Note:**

- a) It shall be clearly mentioned that the BG shall be applicable for individual work/contract and clubbing of various contracts of the said contractor will not be allowed. In case of obtaining Bank Guarantee, it is necessary to mention that the same shall be valid further 6 months from the completion of defect liability period/ warranty period.
- b) It shall be the responsibility of the bidder to keep the submitted B.G. “VALID” for the stipulated time period in the tender & in case of its expiry it will attract penalization.
- c) Bank Guarantee should be issued by way of General Undertaking and Guarantee issued on behalf of the Contractor by any of the Nationalized or Scheduled banks or branches of foreign banks operating under Reserve Bank of India regulations located in Mumbai upto Virar & Kalyan. List of approved Banks is appended at the end of Instructions to Bidders (ITB). The Bank Guarantee issued by branches of approved Banks beyond Kalyan and Virar can be accepted only if the said Bank Guarantee is countersigned by the Manager of a Regional Branch of the same bank within the Mumbai City Limit categorically endorsing thereon that the said Bank Guarantee is binding on the endorsing Branch of the Bank or the Bank itself within Mumbai Limits and is liable to be enforced against the said Branch of the Bank or the bank itself in case of default by the Contractors furnishing the Bank Guarantee. The Bank Guarantee shall be renewed as and when required and/or directed from time to time until the Contractor has executed and completed the works and remedied any defects therein.

E. Legal and Stationary Charges: (As per applicable circular)

Successful tender shall pay the Legal Charges & Stationary charges of **Rs.46,300/- + 18% GST** or of revised amount as per latest applicable circular. The tenderers are requested to note that stationary charges will be recovered from the successful tenderer for supply of requisite prescribed forms for preparing certificate bills in respect of the work.

F. Stamp Duty: (As per applicable circular)

It shall be incumbent on the successful tenderer to pay stamp duty on the contract.

- i. As per the provision made in Article 63, Schedule I of Bombay Stamp Act 1958, stamp duty is payable for “works contract” that is to say, a contract for works and labour or services involving transfer of property in goods (whether as goods or in some other form) in its execution and includes a sub-contract, as under :

(a)	Where the amount or value set forth in such contract does not exceed rupees ten lakh.	Five Hundred rupees stamp duty
(b)	Where it exceeds rupees ten lakhs	Five hundred rupees plus 0.1%of the amount above rupees ten lakhs subject to maximum of rupees twenty five lakhs.
(c)	Bank guarantee: As per article 54 read with 40(b) of stamp duty act, stamp duty of 0.5% will be applicable to the all bank guarantee submitted also which are required to be renewed after expiry of time period.	

- ii. The successful bidder shall enter into a contract agreement with BMC within 30 days from the date of issue of Work Order and the same should be adjudicated for payment of Stamp Duty by the successful bidder.
- iii. Further shortfall if any, in amount of stamp duty paid as against prescribed amount for the documents executed in Mumbai City & Mumbai Suburban District be recovered from the concerned work contractors and to deposit the deficit or unpaid Stamp Duty and penalty by two separate Demand Draft or Pay Order in favour of “Superintendent of Stamp, Mumbai” within 15 days from intimation thereof.
- iv. All legal charges and incidental expenses in this respect shall be borne and paid by the successful tenderer.

IMPORTANT DIRECTIONS

1. All the information uploaded shall be supported by the corroborative documents in absence of which the information uploaded will 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.

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. TENDERERS ARE REQUESTED TO GO THROUGH THE e- TENDER GUIDELINES ON NIC PORTAL (<https://mahatenders.gov.in>). For registration, enrolment for digital signature certificate & user manual, please refer to respective links provided in e-tendering tab. The vendors can get digital signature from any one of the Certifying Authorities (CA’s) licensed by the Controller of Certifying Authorities namely Safes crypt, IDRBT, National Informatics Centre, TCS, Customs, MTNL, GNFC and e- Mudhra.

Any queries or request for additional information concerning this TENDER shall be submitted by e-mail to che.so@mcmgm.gov.in / eemechmscity.so@mcmgm.gov.in. The subject shall clearly

bear the following identification/ title: **“Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department”**.

Any changes in mail ID will be intimated on the portal.

3. In case of **Equal Percentage** of lowest bidders (L1), the allotment of work shall be done by giving 48 hrs (**2 working days**) from the day of opening of packet C **on same BID-Document number for re-quoting** and such development needs to done by IT department in BMC’s SRM system. **Till such development is made; ‘Sealed Bids’ shall be called from the bidders quoting the same rates i.e. L1.**

In case of equal percentage of lowest bidders is obtained even after re-quoting, then the successful bidder will be decided by lottery system by concerned Chief Engineer.

The bidder shall need to submit the additional ASD if applicable within 15 days after receipt of notification issued by concerned Chief Engineer.

Also, Performance Guarantee shall be paid in 15 days after receipt of Letter of Acceptance.

~~4. Clause 6 of General Conditions of Contract is not applicable.~~

~~5. Clause 20, 27.4 & 29, 68 (5), 68 (6), 68 (7), 68 (8), 79 & 83 of General Conditions of Contract is not applicable.~~

~~6. The payment (in Indian Rupees only) shall be made within 30 days from the submission of the bills, subject to verification and satisfactory test of the work carried out. Payment shall be made on monthly basis.~~

~~7. The Contract Deposit shall be refunded after successful completion of work.~~

~~8. **Penalty:** As mentioned in the SPECIFICATIONS.~~

~~9. **GST: As per latest circular no: CA/F/P/28 dtd: 28.03.2023 (Refer Annexure “M”)**~~

~~The tenderer shall quote inclusive of all taxes other than GST(**Excluding GST**), Levies, Duties, Cess etc as applicable at the time of bid submission. GST as applicable shall be paid separately on submission of bills/invoice.~~

~~Input Tax Credit of GST as available with the bidder will not be claim separately by BMC.~~

~~However, while quoting the rates benefit of Input Tax Credit or Exemptions shall be passed on to the BMC by way of equivalent reduction in quoted price.~~

~~10. Contract Labour (Regulation and Abolition) Act, 1970:~~

~~(As per Circular CLO/4 dated 03.06.2004)~~

~~The provisions of this act are applicable to the establishment or contractor of principle employer if they employ 20 or more contract labour. The principal employer is required to take Certificate of Registration and the Contractor is required to take a License from the designated Officer as per the act. The Act provides for certain welfare measures to be provided by law to contract labours by the contractor of Principal Employers.~~

- ~~11. The bidders shall take cognizance of circular u/no. Dy.Ch.E./CPD/2025 dated. 01.09.2021. As per the circular the clause of 'Internal Grievance Redressal Mechanism' will be applicable for subject tender.~~
- ~~12. The GCC of SBD document has been incorporated in the tender. In case of the dispute which could not be covered with the clauses of GCC in SBD, however, covered in the clauses of Standard General Conditions of the contract uploaded on website of BMC, the clauses of Standard GCC will govern. Eventually the decision of BMC will be binding on the contractor.~~

SECTION 7

SCOPE OF WORK

SCOPE OF WORK

Introduction-

Sewerage Operation Department operates various types of vehicle mounted sewer cleaning machineries for mechanized cleaning/ desilting work of the sewer lines of various sizes. The cleaning and desilting works of sewer lines with the help of various sewer cleaning machineries are being carried out as per the Systematic Cleaning Programme prepared & implemented by the department. However, due to the entry of various unwanted foreign materials in the sewer line such as solid materials, stone, debris, cement concrete, etc. the sewer lines get blocked / clogged leading to surcharged and overflowing conditions. The flow of sewage through sewer lines also gets blocked due to the presence of various pipe intrusions, ingress of tree roots, deposition of hard materials, etc. in the sewer lines. These types of materials obstructing the smooth flow cannot be removed with the help of available machineries. Also no technology is available to repair small sewer line damage on the spot which consequently leads to major damages to the sewer line resulting in malfunctioning of sewer network

The ‘Sewer Cleaning Robo’ consisting of high pressure jetting operation for effective cleaning / removal of hard blockages. The machine has additional function of miscellaneous repair work of damaged/ broken sewer lines with later reinstatement cutter. The contractor shall supply, operate & comprehensively maintain Sewer Cleaning Robo Vehicle (01 No.). The Vehicle shall be utilized in 02 (Two) shifts per day in Pipe & Main Sewer City, E/Sub. & W/Sub. Sections of Sewerage Operation Department. The contractor shall operate and comprehensively maintain the Vehicle for a period of 01 year.

The contractor shall work as per the guidelines given by the B.M.C. Engineers. The details of vehicles, shifts and output are as under-

Sr. No.	Description	Details
1	Name of the machine proposed for providing services of operation and comprehensive maintenance.	Sewer Cleaning Robo Vehicle
2	No. of machine to be operated & comprehensively maintained.	01 No. for all the Three Sections viz. Pipe & Main Sewer City, W/Sub. & E/Sub. Section
3	O & M Contract period	01 (One) Year
4	Name of Wards/ Divisions in which the machines are to be utilised for services of Operation & Maintenance.	1. City- 09 Wards 2. W/Sub.- 09 Wards 3. E/Sub.- 06 Wards
4	Each shift shall be of	8 hours
5	Nos. of shifts / day	2

Sr. No.	Description	Details
6	Nos. of working days in a year	26 x 12 = 312 days
7	Total Yearly Shifts	312 x 2 = 624 shifts
9	Fuel required for operation of Vehicle	The fuel shall be provided by the contractor at their own cost.
10	Expected output per shift in normal circumstances.	1 <u>If the Vehicle is utilized for clearing / removing obstructions such as solid materials, stone, cement / concrete debris, tree roots in a blocked sewer line-</u> The contractor shall clear the obstruction/s & submit the CCTV Inspection Video of cleared sewer line.
		2 <u>If the Vehicle is utilized for cleaning of sewer line-</u> - For sewer line of size 600mm to 900mm Dia.- The contractor shall clean minimum 90 meters of length of main sewer line & submit the CCTV Inspection Video of cleared sewer line. - For sewer line of size 900mm Dia. & Above – The contractor shall clean minimum 60 meters of length of main sewer line & submit the CCTV Inspection Video of cleared sewer line.
		3 <u>If the Machine is utilised for carrying minor repairs to sewer line-</u> The contractor shall carry out the repair work and also carry out the survey of sewer line stretch for any other damages. If damages found contractor shall repair the same and submit the CCTV inspection video of repaired line.
		4 The contractor shall work to the satisfaction of BMC site authority.
11	Expected output in Emergency circumstances.	To the satisfaction of B.M.C site authority.

Overall instructions to the contractor:

- 1) The contractor shall appoint well trained Driver- 01 No, Operator-01 No & Helper-01 No. for the Sewer Cleaning Robo Vehicle. The contractor shall maintain the shift wise attendance register for the assigned staff.
- 2) The contractor shall arrange the staff in advance for the replacement of the probable absent staff. The contractor shall co-ordinate with Operating Staff & BMC Engineer. The contractor shall follow the guidelines from BMC Engineer and pass on the orders to operating staff.
- 3) The contractor shall arrange the functional training of the Sewer Cleaning Robo Vehicle for the Engineers, Drainage Assistance & other staff of Department.
- 4) The contractor shall maintain the cleanliness of vehicle & shall ensure that all the machines, equipments, tools etc. are in working condition at the start of each shift. They shall also maintain the adequate quantity of diesel, engine oil, grease, etc. for smooth operation of all equipments & vehicle in shift.
- 5) The contractor shall ensure that all the employees appointed for work shall comply with the site and personal safety equipments during the work. The contractor shall provide safety equipments as mentioned in Annexure-II. The operating staff shall adopt all precautionary safety measures as per the guidelines of Hon'ble Mumbai High Court / Hon'ble Supreme Court while operating the vehicle. In case of any accident due to non-compliance of safety equipments, the contractor shall be held responsible.
- 6) Though the possibility of Robo / Crawler or any of its attachment getting stuck inside sewer line cannot be ruled out, the contractor shall take utmost care while operating Sewer Cleaning Robo inside the sewer line. In case the Robot / Crawler, any of its attachment, cable or any other part getting stuck inside the sewer line, the contractor shall do all the necessary arrangement to remove the Robo or its component from sewer line. Any expenditure for the said work shall be borne by contractor & no extra payment shall be made to the contractor.
- 7) The staff shall install all the site safety equipments like traffic cone, barricades, flickering lamp to divert the traffic from site location to avoid any mishap. It is also required to make use of torch, wearing of reflecting jackets in second and night shift for better visibility in dark for other vehicles and citizens from safety point of view.
- 8) The work for each shift shall be assigned by the BMC Engineers. The contractor shall carry out the actual operation of the vehicle at the assigned sites and attend / complete the work assigned to them satisfactorily.
- 9) At the end of the work of every complaint / shift the contractor shall take the signature of site supervisor (J.E./D.A./Mukadam) on the log sheet whoever will be present at the site during operation of the vehicle regarding the satisfactory attendance / completion of the work in a

particular shift. The contractor also shall obtain the signature of the complainant, if present on the site, regarding the satisfactory attendance / completion of the work.

- 10) The contractor shall maintain the copies with summary sheet and submit to BMC Engineer at the end of every month along with bill and shall be produced whenever asked by the concerned BMC Engineer. One copy of this record shall be maintained in the site office of the contractor and shall be presented whenever asked by BMC Engineer.
- 11) In case of any repair work required on site then such repair work shall be carried out by contractor on site itself and complete the assigned work.
- 12) The contractor shall carry out the preventive & breakdown maintenance of vehicle, machines, equipment's, etc. as and when required.
- 13) The contractor shall ensure that the spares required for repair and maintenance of various machines, equipments, tools, etc. shall be procured from the original equipment manufacturer (OEM) only.
- 14) The contractor shall maintain the records of Staff attendance and prepare Monthly report with utilization and maintenance of the vehicle and shall submit the same to the office of concerned Main Sewer Section. One copy of the same record shall also be available with the contractor and shall be produced demanded.
- 15) The contractor shall carryout all the works as per R.T.O. norms for fitness certificate passing of R.T.O. The contractor shall inform in advance regarding R.T.O. passing of vehicle to BMC Engineer. All cost in this regard shall be borne by the contractor.
- 16) The contractor shall adhere with and follow all the prevailing rules & regulations issued by state government from time to time in respect to minimum wages / various dues / compensations to be given to the staff deputed for the subject services. As applicable, the contractor shall get themselves registered under Contract Labour Act & shall produce the Certificate of Registration in the office of Executive Engineer. All documents in respect of payments to the staff for each month shall be given to BMC within one week after release of payment by B.M.C.
- 17) The contractor shall insure that all employees shall be covered under Employee State Insurance Corporation Act 1948 or as latest applicable. The contractor shall submit the copy of insurance and receipt of payment made to Employee State Insurance Corporation time to time for each employee.
- 18) The contractor shall pay the employees EPF contribution every month as per Employee Provident Fund Act 1952 or as latest applicable. The contractor shall submit certified copies of monthly statement of EPF paid for each employee time to time.

- 19) The staff employed by the contractor shall be covered with all statutory laborers laws in vogue as mentioned in of General Conditions of Contract. The contractor in this regard shall submit the necessary documents before starting the work. The contractor shall get first party insurance (comprehensive insurance) of vehicles and insurance of employees appointed for the work of providing services obtained from Directorate of Insurance, Mumbai, Maharashtra State before starting the work. The copy of the same shall be submitted to the department.
- 20) The contractor shall insure their employees deputed for carrying out the subject work under Workmen Compensation Act, 1923 & Fatal Accident Act 1885 & shall produce the Certificate of the same. B.M.C shall not be responsible for any financial liabilities in case of any accident / hazard.
- 21) The contractor shall pay the salary to the staff appointed for work as per the Circular of Chief Labour Officer of BMC u/No.CLO / 07 / 2024-25 dt. 03.10.2024 or amended and shall abide to the Minimum Wages Act 1948.
- 22) The Vehicle shall be stationed / parked at place as directed by BMC Engineer after completion of daily work.
- 23) After completion of contract period, the successful contractor shall peacefully handover the possession of the 'Sewer Cleaning Robo Vehicle 'in good working condition with no pending dues of RTO/Traffic penalties on the vehicles. Necessary, No pending due document shall be submitted along with RTO Registration documents & Insurance copies in original.

ANNEXURE-I

The contractor shall submit the copies of following information / documents to the office of concerned Main Sewer Section within 15 days from the date of issue of Service P.O. for operation and comprehensive maintenance.

- A) Documents of Insurance under Workmen Compensation Act, 1923 & Fatal Accident Act 1885 of all employees deputed for carrying out the work of Operation.
- B) List of employees deputed for carrying out work along with details such as name, address, age, sex, etc. along with their Aadhar Card.
- C) The copies of valid Motor vehicles license of all Driver-Operators.
- D) Copies of Identity Cards issued by the Contractor to their employees.
- E) List of safety equipment's for verification (as per Annexure-II).
- F) Copy of insurance of staff and first party insurance of complete machine.

ANNEXURE-II

Personal & site Safety Equipment's / Items to be provided with each Machine/ employee

Sr. No.	Name of the Item / Equipment	Quantity
1	Helmet	01 No.
2.	Hand Gloves	01 Pair
3.	Safety Shoes	01 Pair
4.	Fluorescent Jacket	01 No.
5.	Flickering Lamps (During 2 nd & 3 rd shift)	03 Nos.
6.	Torch of sufficient light	01 No.
7.	Uniform	Adequate
8.	Manhole Guard	03 Nos.
9.	Traffic Cones	03 Nos.
10.	First Aid Box	01 No.
11.	Fire Extinguisher	01 No.

The contractor shall make necessary arrangement for carrying out the above-mentioned items along with the Machines to the sites. The staff appointed for the work of Operation & Maintenance shall wear the uniform indicating name of employee and name of the contractor while on duty.

SECTION 8

BILL OF QUANTITIES

Sub :- Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department

Schedule of Rates & Quantity

PACKET 'C'

Sr. No.	Description	Qty.	Rate (Rs.)	Total Amount (Rs.)
1	Supply of Sewer Cleaning Robo Vehicle (Incl. of all taxes)	01 No.	<i>To be filled online only</i>	<i>To be filled online only</i>
2	Cost of Operation (Incl. of all taxes)	624 shifts	<i>To be filled online only</i>	<i>To be filled online only</i>
3	Yearly Vehicle Insurance Cost (Incl. of all taxes)	1 No.	<i>To be filled online only</i>	<i>To be filled online only</i>
4	Total Cost of Work (Incl. of all taxes) (Rs.)		<i>To be filled online only</i>	<i>To be filled online only</i>

Note-

1. This is for reference only.
2. The Bidder shall quote the prices 'Inclusive of all taxes' for all the BOQ items.
3. The Sewer Cleaning Robo Vehicle shall be supplied, operated and maintained for total 624 shifts.
4. The bidder shall fill up the rates ONLINE only. The Rates for 'Cost of Operation' shall be quoted on 'per shift' basis. Whereas, yearly cost shall be quoted for 'Yearly Vehicle Insurance'.

SECTION 9

GENERAL CONTRACT CONDITIONS

General Conditions of Contract

A. General

1. Definitions

1.1. Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

The “Contract” shall mean the tender and acceptance thereof and the formal agreement if any, executed between the Contractor, Commissioner and the Corporation together with the documents referred to therein including these conditions and appendices and any special conditions, the specifications, designs, drawings, price schedules, bills of quantities and schedule of rates. All these documents taken together shall be deemed to form one Contract and shall be complementary to one another.

The Contract Data defines the documents and other information which comprise the Contract.

The “Contractor” shall mean the individual or firm or company whether incorporated or not, whose tender has been accepted by the employer and the legal successor of the individual or firm or company, but not (except with the consent of the Employer) any assignee of such person.

The Bidder is a person or corporate body who has desired to submit Bid to carry out the Works, including routine maintenance till the tender process is concluded.

The Contractor's Bid is the completed bidding document submitted by the Contractor to the Employer.

The “Contract Sum” means the sum named in the letter of acceptance including Physical contingencies subject to such addition thereto or deduction there-from as may be made under the provisions hereinafter contained.

Note: The contract sum shall include the following -

- In the case of percentage rate contracts the estimated value of works as mentioned in the tender adjusted by the Contractor's percentage.
- In the case of item rate contracts, the cost of the work arrived at after finalisation of the quantities shown in schedule of items / quantities by the item rates quoted by the tenderers for various items and summation of the extended cost of each item.
- In case of lump sum contract, the sum for which tender is accepted.
- Special discount / rebate / trade discount offered by the tenderer if any and accepted by the Corporation.
- Additions or deletions that are accepted after opening of the tenders.

The “Contract Cost” means the Contract Sum plus Price Variation. This cost shall be included in the letter of acceptance.

A Defect is any part of the Works not completed in accordance with the Contract.

The Defects Liability Certificate is the certificate issued by the Engineer, after the Defect Liability Period has ended and upon correction of Defects by the Contractor.

Drawings means all the drawings, calculations and technical information of a like nature provided by the Engineer to the Contractor under the Contract and all drawings, calculations, samples, patterns, models, operation & maintenance manual and other technical information of like nature submitted by the Contractor and approved by the Engineer.

The Authority shall mean Brihanmumbai Municipal Corporation (BMC)

The “Employer” shall mean the Municipal Corporation for Greater Mumbai / Municipal Commissioner for Greater Mumbai, for the time being holding the said office and also his successors and shall also include all “Additional Municipal Commissioners, Director (Engineering Services & Projects)” and the Deputy Municipal Commissioner, to whom the powers of Municipal Commissioner, have been deputed under Section 56 and 56B of the Mumbai Municipal Corporation Act.

The Engineer in-charge shall mean the Executive Engineer in executive charge of the works and shall include the superior officers of the Engineering department i.e. Dy.Ch.Eng/Ch.Eng. and shall mean and include all the successors in BMC

The Engineer's Representative shall mean the Assistant Engineer, Sub. Engineer/Jr. Engineer in direct charge of the works and shall include Sub Eng./ Jr. Eng of Civil section/ Mechanical section/ Electrical section appointed by BMC.

The “Engineer” shall mean the City Engineer / the Hydraulic Engineer / the Chief Engineer / the Special Engineer, appointed for the time being or any other officer or officers of the Municipal Corporation who may be authorized by the commissioner to carry out the functions of the City Engineer / the Hydraulic Engineer / the Chief Engineer / the Special Engineer or any other competent person appointed by the employer and notified in writing to the Contractor to act in replacement of the Engineer from time to time.

Contractor’s Equipment means all appliances and things of whatsoever nature required for the execution and completions of the Works and the remedying of any defects therein, but do not include plant material or other things intended to form or forming part of the Permanent Works.

The Initial Contract Price is the Contract Price listed in the Employer's Letter of Acceptance.

The Intended Completion Date is the date on which it is intended that the Contractor shall complete the construction works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works and works of routine maintenance.

Plant is any integral part of the Works that shall have a mechanical, electrical, electronic, chemical, or biological function.

Routine Maintenance is the maintenance of activities of the completed structure for five years as specified in the Contract Data.

The “Site” shall mean the land and other places including water bodies more specifically mentioned in the special conditions of the tender, on, under in or through which the permanent works or temporary works are to be executed and any other lands and places provided by the Municipal Corporation for working space or any other purpose as may be specifically designated in the contract as forming part of the site.

Site Investigation Reports are those that were included in the bidding documents and are reports about the surface and subsurface conditions at the Site.

“Specification” shall mean the specification referred to in the tender and any modification thereof or addition or deduction thereto as may from time to time be furnished or approved in writing by the Engineer.

The Start Date/Commencement Date is given in the Contract Data. It is the date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

A Nominated Sub-Contractor is a person or corporate body who has a Contract with the Contractor to carry out a part of the construction work and/or routine maintenance in the Contract, which includes work on the Site.

Temporary Works are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

Variation means a change to the:-

- i) Specification and /or Drawings (if any) which is instructed by the Employer.
- ii) Scope in the Contract which is instructed by the Employer.
- iii) Price in the Contract which is instructed by the Employer.

The Works, as defined in the Contract Data, are what the Contract requires the Contractor to construct, install, maintain, and turn over to the Employer. Routine maintenance is defined separately.

Jurisdiction: In case of any claim, dispute or difference arising in respect of a contract, the cause of action thereof shall be deemed to have arisen in Mumbai and all legal proceedings in respect of any claim, dispute or difference shall be instituted in a competent court in the City of Mumbai only.

2. Interpretation

2.1. In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about these Conditions of Contract.

2.2. If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

2.3. The documents forming the Contract shall be interpreted in the following documents:
(1) Agreement, (2) Letter of Acceptance, (3) Notice to Proceed with the Work, (4) Contractor's Bid, (5) Contract Data, (6) Special Conditions of Contract Part (7) General Conditions of Contract Part I, (8) Specifications, (9) Drawings, (10) Bill of Quantities, and (11) Any other document listed in the Contract Data.

3. Engineer's Decisions

3.1. Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer. However, if the Engineer is required under the rules and regulations and orders of the Employer to obtain prior approval of some other authorities for specific actions, he will so obtain the approval, before communicating his decision to the Contractor.

3.2. Except as expressly stated in the Contract, the Engineer shall not have any authority to relieve the Contractor of any of his obligations under the contract.

4. Delegation

The Engineer, with the approval of the Employer, may delegate any of his duties and responsibilities to other person(s), except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

5. Communications

All certificates, notices or instructions to be given to the Contractor by Employer/ Engineer shall be sent on the address or contact details given by the Contractor of Bid. The address and contact details for communication with the Employer/ Engineer shall be as per the details given in Contract Data. Communications between parties that are referred to in the conditions shall be in writing. The Notice sent by facsimile (fax) or other electronic means shall be effective on confirmation of the transmission. The Notice sent by Registered post or Speed post shall be effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service.

6. Subcontracting

6.1. Unless specifically mentioned in the contract subletting will not be allowed. Subletting, where otherwise provided by the contract shall not be more than 25% of the contract price.

6.2. The Contractor shall not be required to obtain any consent from the Employer for:

- a. The sub-contracting of any part of the Works for which the Subcontractor is named in the Contract;
- b. The provision for labour, or labour component.

- c. The purchase of Materials which are in accordance with the standards specified in the Contract.

6.3. Beyond what has been stated in clauses 6.1 and 6.2, if the Contractor proposes sub-contracting any part of the work during execution of the Works, because of some unforeseen circumstances to enable him to complete the Works as per terms of the Contract, the Employer will consider the following before according approval:

- a. The Contractor shall not sub-contract the whole of the Works.
- b. The permitted subletting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the BMC and shall not relieve the Contractor of any responsibility under the Contract.

6.4. The Engineer should satisfy himself before recommending to the Employer whether,

- a. The circumstances warrant such sub-contracting; and
- b. The sub-Contractor so proposed for the work possesses the experience, qualifications and equipment necessary for the job proposed to be entrusted to him.

7. Other Contractors

7.1. The Contractor shall cooperate and share the Site with other Contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as referred to in the Contract Data. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

7.2. The Contractor should take up the works in convenient reaches as decided by the Engineer to ensure there is least hindrance to the smooth flow and safety of traffic including movement of vehicles and equipment of other Contractors till the completion of the Works.

8. Personnel

8.1. The Contractor shall employ for the construction work and routine maintenance the key personnel including technical personnel named in the Contract Data or other personnel approved by the Engineer. The Engineer will approve any proposed replacement of technical personnel only if their relevant qualifications and abilities are substantially equal to those of the personnel stated in the Contract Data.

8.2. The Contractor's personnel shall appropriately be qualified, skilled and experienced in their respective trades or occupations. The Engineer shall have authority to remove, or cause to be removed, any person employed on the site or works, who carries out duties incompetently or negligently and persists in any conduct which is prejudicial to safety, health or the protection of the environment.

8.3. If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the Works in the Contract.

8.4. The Contractor shall not employ any retired Gazetted officer who has worked in the Engineering Department of the BMC /State Government and has either not completed two years after the date of retirement or has not obtained BMC/State Government's permission to employment with the Contractor.

9. Employer's and Contractor's Risks

9.1. The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

10. Employer's Risks

10.1. The Employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works in the Employer's country, the risks of war, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot, commotion or disorder (unless restricted to the Contractor's employees) and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

11. Contractor's Risks

11.1. All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks, referred to in clause 11.1, are the responsibility of the Contractor.

12. Insurance

12.1. The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of Defects Liability Period, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

- a) Loss of or damage to the Works, Plant and Materials;
- b) Loss of or damage to Equipment;
- c) Loss of or damage to property (other than the Works, Plant, Materials, and Equipment) in connection with the Contract; and
- d) Personal injury or death.

12.2. Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

12.3. Alterations to the terms of insurance shall not be made without the approval of the Engineer.

12.4. Both parties shall comply with any conditions of the insurance policies.

12.5. If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the

premiums the Employer has paid, from payments otherwise due to the Contractor or if no payment is due, the payment of premiums shall be debt due.

13. Site Investigation Reports

13.1. The Contractor, in preparing the Bid, may rely, at his own risk, on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid.

14. Queries about the Contract Data

14.1. The Engineer will clarify queries on the Contract Data.

15. Contractor to Construct the Works and Undertake Maintenance (if specified in the tender)

15.1. The Contractor shall construct, and install and maintain the Works in accordance with the Specifications and Drawings and as per instructions of the Engineer.

15.2. The Contractor shall construct the works with intermediate technology, i.e., by manual means with medium input of machinery required to ensure the quality of works as per specifications. The Contractor shall deploy the equipment and machinery as required in the contract.

15.3. The Contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.

During continuance of the contract, the Contractor and his sub-contractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and byelaws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or notification that may be issued in future by the State or Central Government or the local authority. Salient features of some of the major laws that are applicable are given below:

- The Water (Prevention and Control of Pollution) Act, 1974, this provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. 'Pollution' means such contamination of water or such alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.
- The Air (Prevention and Control of Pollution) Act, 1981, this provides for prevention, control and abatement of air pollution. 'Air Pollution' means the presence in the atmosphere of any 'air pollutant', which means any solid, liquid or gaseous substance (including noise) present

in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.

- The Environment (Protection) Act, 1986, this provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property. 'Environment' includes water, air and land and the interrelationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.
- The Public Liability Insurance Act, 1991, This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as may be specified by notification by the Central Government.

16. The Works and Routine Maintenance to be completed by the Intended Completion Date

16.1. The Contractor may commence execution of the Works on the Start Date and shall carry out the Works and Routine Maintenance, if specified in the tender, in accordance with the Programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

17. Approval by the Engineer

17.1. The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them if they comply with the Specifications and Drawings.

17.2. The Contractor shall be responsible for design and safety of Temporary Works.

17.3. The Engineer's approval shall not alter the Contractor's responsibility for design and safety of the Temporary Works.

17.4. The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.

17.5. All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.

18. Safety

18.1. The Contractor shall be responsible for the safety of all activities on the Site. He shall comply with all applicable safety requirements and take care of safety of all persons entitled to be on the site and the works. He shall use reasonable efforts to keep the site and the works, both during construction and maintenance, clear of unnecessary obstruction so as to avoid danger to the persons and the users.

- Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
- Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Power warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
- The workers engaged for cleaning the manholes/sewers should be properly trained before allowing working in the manhole.

18.2. Safety Programs:-

- I. Have adequate safety supervision in place to ensure that safety programs set up by the firms/agencies are in compliance with prevalent laws and regulations.
- II. Review safety programs developed by each of the trade firms, prepare and submit a comprehensive safety program.
- III. Monitor day to day implementation of safety procedures.

18.3. First Aid Facilities: -

- i. At every work place there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.
- ii. The first-aid box shall be distinctly marked with a red cross on white back ground.
- iii. Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.
- iv. Nothing except the prescribed contents shall be kept in the First-aid box.
- v. The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.
- vi. A person in charge of the First-aid box shall be a person trained in First-aid treatment, in the work places where the number of contract labour employed is 150 or more.

19. Discoveries

19.1. Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

20. Possession of the Site

20.1. The Employer shall handover complete or part possession of the site to the Contractor 7 days in advance of construction programme. At the start of the work, the Employer shall

handover the possession of at-least 75% of the site free of all encumbrances, the remaining 25 % of the possession as per contractor's construction programme.

21. Access to the Site

21.1. The Contractor shall allow access to the Site and to any place where work in connection with the Contract is being carried out, or is intended to be carried out to the Engineer and any person/persons/agency authorized by: a. The Engineer b. The Employer or authorized by the Employer.

22. Instructions

22.1. The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.

22.2. The Contractor shall permit the appointed and/or authorized persons to inspect the Site and/or accounts and records of the Contractor and its subcontractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed, if so required. The Contractor's attention is invited to Clause of 'Fraud and Corruption', which provides, inter alia, that acts intended to materially impede the exercise of the inspection and audit rights provided for under the Clause & constitute a obstructive practice subject to contract termination

22.3. Engineer to have power to issue further drawings or instructions:

The Engineer shall have the power and authority from time to time and at all times to make and issue such further drawings and to give such further instructions and directions as may appear to him necessary or proper for the guidance of the contractor and the good and sufficient execution of the works according to terms of the specifications and Contractor shall receive, execute, obey and be bound by the same, according to the true intent and meaning thereof, as fully and effectually as though the same had accompanied or had been mentioned or referred to in the specification, and the Engineer may also alter or vary the levels or position of nature of works contemplated by the specifications, or may order any of the works contemplated thereby to be omitted, with or without the substitution of any other works in lieu thereof, or may order any work or any portion of work executed or partially executed, to be removed, changed or altered, added if needful, may order that other works shall be substituted instead thereof and difference of expense occasioned by any such diminution or alteration so ordered and directed shall be added to or deducted from the amount of this Contract, as provided under condition no.10(a) hereinafter.

No work which radically changes the original nature of the Contract shall be ordered by the Engineer and in the event of any deviation being ordered which in the opinion of the Contractor changes the original nature of Contract he shall nevertheless carry it out and disagreement as to the nature of the work and the rate to be paid therefore shall be resolved in accordance with condition no.13d.

The time for completion of the Works, shall be in even of any deviations resulting in additional cost over the contract price being ordered, be extended or reduced reasonably by the Engineer. The Engineer's decision in this case shall be final.

B. Time Control

23. Programme

23.1. Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme, including Environment Management Plan showing the general methods, arrangements, order, and timing for all the activities in the Works, along with monthly cash flow forecasts for the construction of works.

After the completion of the construction works, the programme for the Routine Maintenance Work, showing the general methods, arrangements, order and timing for all the activities involved in the Routine Maintenance will also be submitted by the Contractor to the Engineer for approval if specified in the tender. The programme for Routine Maintenance will be submitted in each year for the period of Maintenance.

23.2. The Contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/ equipments being placed in field laboratory and the location of field laboratory along with the Programme. The Engineer shall cause these details to be verified at each appropriate stage of the programme.

23.3. An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

23.4. The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

23.5. The Engineer's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer again at any time. A revised Programme shall show the effect of Variations and Compensation Events.

24. Extension Of Time In Contracts :

Subject to any requirement in the contract as to completion of any portions or portions of the works before completion of the whole, the contractor shall fully and finally complete the whole of the works comprised in the contract (with such modifications as may be directed under conditions of this contract) by the date entered in the contract or extended date in terms of the following clauses:

a) Extension attributable to BMC

- i) **Extension Due To Modification:** If any modifications have been ordered which in the opinion of the Engineer have materially increased the magnitude of the work, then such extension of the contracted date of completion may be granted as shall appear

to the Engineer to be reasonable in the circumstances, provided moreover that the Contractor shall be responsible for requesting such extension of the date as may be considered necessary as soon as the cause thereof shall arise and in any case **should not be less than 30 days before the expiry of the date fixed for completion of the works.**

- ii) **Extension For Delay Due To BMC:** In the event of any failure or delay by the BMC to hand over the Contractor possession of the lands necessary for the execution of the works or to give the necessary notice to commence the works or to provide the necessary drawings or instructions or any other delay caused by the BMC due to any other cause whatsoever, then such failure or delay shall in no way affect or vitiate the contract or alter the character thereof or entitle the contractor to damages or compensation therefore, but in any such case, the BMC may grant such extension(s) of the completion date as may be considered reasonable.

Note: For extension of time period as governed in (i) and (ii) above, any modifications in design/drawings, specifications, quantities shall be needed to be justified with recorded reasons with approval of Ch.Eng. for not anticipating the same while preparing estimates and draft tender.

b) Extension Of Time For Delay Due To Contractor :

The time for the execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract and the works must be completed no later than the date(s) / the programme for completion of work as specified in the contract. If the contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in above as (a. i) and (a. ii), the BMC may, if satisfied that the works can be completed by the contractor within reasonable short time thereafter, allow the contractor for further extension of time as the Engineer may decide. On such extension BMC will be entitled without prejudice to any other right and remedy available on that behalf, to recover the compensation as governed by Clause 8(e) of GCC.

For the purpose of this Clause, the contract value of the works shall be taken as value of work as per contract agreement including any supplementary work order/contract agreement issued.

Further, competent authority while granting extension to the currency of contract under Clause (b) of as above may also consider levy of penalty, as deemed fit based on the merit of the case. Also, the reasons for granting extension shall be properly documented.

25. Delays Ordered by the Engineer

25.1. The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works. Delay/delays totalling more than 30 days will require prior written approval of the DMC/AMC.

26. Management Meetings

26.1. The Engineer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the plans for progress of the Works.

26.2. The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting. The responsibility of the parties for actions to be taken shall be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting.

C. Quality Control

27.1. Work to be open to Inspection and Contractor or Responsible agent to be present

All works under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Eng-in-charge and his subordinates and the contractor shall at all times during the usual working hours, at all other times, during the usual working hours and at all other times at which reasonable notice of the intention of the Eng-in-charge and his subordinates to visit the works shall have been given to the contractor, either himself be present to receive orders and instruction or have responsible agent duly accredited in writing present for that purpose. Order given to the contractors' duly authorized agent shall be considered to have the same force and effect as if they had been given to the contractor himself.

27.2. Notice To Be Given Before Work Is Covered Up

The contractor shall give not less than ten days' notice in writing to the Eng-In-Charge or his subordinate in-charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimension thereof taken before the same is so covered up or placed beyond the reach of measurements and shall not cover up or place beyond the reach of measurement any work without the consent in writing of the Eng-In-Charge or his subordinate in-charge of the work, and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the contractors expenses, and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed

27.3. Works to be executed in accordance with specifications / drawings / orders etc. :

The contractor shall execute the whole and every part of the work the most substantial and workman like manner and both has regards material and every other respect in strict accordance with specifications. The contractor shall also confirm exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer In-charge and lodged in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office, or on the site or work during office hours. The contractor shall be entitled to receive three sets of contract drawings and working drawings as well as one certified copy of the accepted tender along with the work order free of cost.

27.4. Ready Mix Concrete/ Asphalt Mix

- i) The contractor shall have to arrange Ready Mix concrete (RMC)/Asphalt from RMC/ASPHALT producing plants registered with BMC
- ii) The contractor shall, within 7 days of award of the work, submit a list of at least three RMC/Asphalt producers with details of such plants including details and number of transit, mixers & pumps etc. to be deployed indicating name of owner/company, its location, capacity, technical establishment.

The Engineer-in-charge will reserve right to inspect at any stage and reject the concrete if he is not satisfied about quality of product at the user's end.

- iii) The Engineer-in-charge reserves the right to exercise control over the:-
 - a) Calibration check of the RMC/Asphalt plant.
 - b) Weight and quantity check on the ingredients, water and admixtures added for batch mixing for RMC plants
 - c) Time of mixing of concrete/grade of asphalt.
 - d) Testing of fresh concrete/asphalt mix, recording of results and declaring the mix fit or unfit for use. This will include continuous control on the work ability during production and taking corrective action, if required.
 - e) For exercising such control, the Engineer-in-charge shall periodically depute his authorized representative at the RMC/Asphalt plant. It shall be responsibility of the contractor to ensure that all necessary equipment, manpower & facilities are made available to Engineer-in-charge and or his authorized representative at RMC/Asphalt plant.
 - f) All required relevant records of RMC/Asphalt mix shall be made available to the Engineer-in-charge or his authorized representative. Engineer-in-charge shall, as required, specify guidelines & additional procedures for quality control & other parameters in respect of material production& transportation of concrete mix which shall be binding on the contractor & the RMC/Asphalt plant. Only concrete as approved in design mix by Engineer-in-charge shall be produced in RMC plant and transported to the site.
 - g) The contractor shall have to produce a copy of challan receipts/SCADA reports/VTS reports as issued by the RMC/Asphalt plant as a documentary proof in lieu of supply of RMC/Asphalt mix before releasing payment.

28. Identifying Defects

28.1. The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.

28.2. The Contractor shall permit the Employer's technical person(s) to check the Contractor's work and notify the Engineer and Contractor if any defects that are found.

29. Tests

29.1. For carrying out mandatory tests as prescribed in the specifications, the Contractor shall establish field laboratory at the location decided by Engineer. The field laboratory will have minimum of equipment as specified in the Contract Data. The contractor shall be solely responsible for:

- a. Carrying out the mandatory tests prescribed in the Specifications, and
- b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.

29.2. If the Engineer instructs the Contractor to carry out a test not specified in the Specification/ Quality Assurance Handbook to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect, the test shall be a compensation event.

When required by the Engineer-in-charge the contractor(s) shall supply for the purpose of testing samples of all materials proposed to be used in the works. Samples submitted either to govern bulk supplies or required for testing before use shall be in suitable packages to contain them and shall be provided free of charge by the contractor. The cost of testing shall be borne by the contractor even if the result of the sample confirm or do not confirm to the relevant BIS code specifications.

- i. All expenditure required to be incurred for taking the samples conveyance, packing shall be borne by the contractor himself.
- ii. The failed material shall be removed from the site by the contractor at his own cost within a week time of written order of the Engineer-in-charge.

29.3. Setting of Site Laboratories:

Contractors shall set up a laboratory at site before commencement of work at their cost for performing various tests and at least the following machines and equipments shall be provided therein –

Set of Sieves as per I.R.C. /I.S.

1. Compressive Testing Machine(For new works)
2. Oven, Electrically Operated
3. Weighing Balance (20 kg capacity)
4. 3 m straight edge
5. Sieve shaker
6. First Aid Box
7. Measuring Jar (for silt content)
8. Other Machines/apparatus as may be directed by the Engineer
9. Vernier Calliper
10. Level / Theodolite

All the test records shall be maintained in the site office and made available as and when required. The laboratory must be established within 15 days from the date of receipt of the orders from Engineer In charge. On failure to do so, a penalty of Rs 1000/- per day shall be imposed.

The contractor shall install testing equipment at site. The contractor shall ensure and certify the calibration of the equipment so installed and shall maintain the same in working order throughout the period of construction. The contractor shall also provide necessary technically qualified experienced trained staff for carrying out such tests for using such equipment. The tests shall be carried out under the supervision of the Engineer-in-charge. The calibration shall be checked every twelve months as directed by Engineer-in-charge.

30. Correction of Defects noticed during the Defects Liability Period.

30.1.

- a) The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and ends after five years. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- b) Every time notice of Defect/Defects is given, the Contractor shall correct the notified Defect/Defects within the duration of time specified by the Engineer's notice.
- c) The Engineer may issue notice to the Contractor to carry out removal of defects or deficiencies, if any, noticed in his inspection, or brought to his notice. The Contractor shall remove the defects and deficiencies within the period specified in the notice and submit to the Engineer a compliance report.

31. Uncorrected Defects and Deficiencies

31.1. If the Contractor has not corrected a Defect pertaining to the Defect Liability Period under clause and deficiencies in maintenance, to the satisfaction of the Engineer, within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect or deficiency corrected, and the Contractor shall pay this amount, on correction of the Defect or deficiency by another agency.

D. Cost Control

32. Variations

The Engineer shall, having regard to the scope of the Works and the sanctioned estimated cost, have power to order, in writing, Variations within the scope of the Works he considers necessary or advisable during the progress of the Works. Such Variations shall form part of the Contract and the Contractor shall carry them out and include them in updated Programmes produced by the Contractor. Oral orders of the Engineer for Variations, unless followed by written confirmation, shall not be taken into account.

33. Payments for Variations

33.1. If rates for Variation items are specified in the Bill of Quantities, the Contractor shall carry out such work at the same rate.

33.2. The rate for Extra/Excess shall be governed by clause 10.A of Standard General Condition of Contract

34. Cash Flow Forecasts

When the Programme is updated, the Contractor shall provide the Engineer with an updated cash flow forecast.

35. Payment Certificates

The payment to the Contractor will be as follows for construction work:

- a) A bill shall be submitted by the Contractor monthly or before the date fixed by the Engineer In-charge for all works executed in the previous month, and the Engineer In-charge shall take or cause to be taken requisite measurement for the purpose of having the same verified and the claim, so far as it is admissible, shall be adjusted, if possible, within 10 days from the presentation of the bill. If the contractor does not submit the bill within the time fixed as aforesaid, the Engineer In-charge may depute a subordinate to measure up the said work in the presence of the contractor or his duly authorized agent whose counter signature to the measurement list shall be sufficient warrant, and Engineer In-Charge may prepare a bill from such list which shall be binding on the contractor in all respects.
- b) The Engineer shall check the Contractor's fortnightly/monthly statement within 14 days and certify the amount to be paid to the Contractor.
- c) The value of work executed shall be determined, based on measurements by the Engineer.
- d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- e) The value of work executed shall also include the valuation of Variations and Compensation Events.
- f) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
- g) The contractor shall submit all bills on the printed forms at the office of Engineer In-charge. The charges to be made in the bills shall always be entered at the rates specified in tender.

36. Payments

36.1. Payments shall be adjusted for deductions for advance payments, retention, security deposit, other recoveries in terms of the Contract and taxes at source, as applicable under the law. The Employer shall pay the Contractor the amounts certified by the Engineer within 15 days of the date of each certificate.

36.2. All sums payable by a contractor by way of compensation under any of these conditions, shall be considered as a reasonable compensation to be applied to the use of BMC without reference to the actual loss or damage sustained and whether any damage has or has not been sustained.

36.3. No payment shall be made for any work estimated to cost less than Rupees One Thousand till after the whole of work shall have been completed and the certificate of

completion given. But in the case of works estimated to cost more than Rs. One Thousand, the contractor shall on submitting a monthly bill therefore be entitled to receive payment proportionate to the part of the work than approved and passed by the Engineer In-charge, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. All such intermediate payments shall be regarded as payments by way of advance against the final payments only and not as payments for work actual done and completed and shall not preclude the Engineer In-charge from requiring any bad, unsound, imperfect or unskilful work to be removed or taken away and reconstructed or re-erected nor shall any such payment be considered as an admission of the due performance of the contract or any part thereof in any respect or the offering of any claim not shall it conclude, determine or effect in any other way, the powers of the Engineer In-charge as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or effect the contract. The final bill shall be submitted by the Contractor within one month of the date fixed for the completion of the work otherwise the Engineer In-charge's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties.

37. The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor for not having given early warning or not having cooperated with the Engineer.

38. Tax

All taxes, duties, cess and charges such as Octroi, Service Tax, Terminal or Sales Tax, VAT etc. and other duties on material obtained for the work from any source including the tax applicable as per Maharashtra Sales Tax Act, on the transfer of property in goods involved in the execution of work contract (re-enacted) Act 1989 or as amended shall be borne by tenderer. The tenderer will not be reimbursed the taxes, duties, cess and charges whether now in force or that may be enforced in future.

Rates accepted by BMC shall hold good till completion of work and no additional individual claim shall be admissible on account of fluctuations in market rates; increase in taxes/any other levies/tolls etc. except that payment/recovery for overall market situation shall be made as per Price Variation.

39. Currencies

All payments will be made in Indian Rupees.

40. Liquidated Damages

Both, the Contractor and the Employer have agreed that it is not feasible to precisely estimate the amount of losses due to delay in completion of works and the losses to the public and the economy, therefore, both the parties have agreed that the Contractor shall pay liquidated damages to the Employer and not by way of penalty, at the rate per week or part thereof stated in the Contract Data for the period that the Completion Date is later than the Intended Completion Date. Liquidated damages at the same rates shall be withheld if the Contractor fails to achieve the milestones prescribed in the Contract Data. However, in case

the Contractor achieves the next milestone, the amount of the liquidated damages already withheld shall be restored to the Contractor by adjustment in the next payment certificate. The Employer and the contractor have agreed that this is a reasonable agreed amount of liquidated damage. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's other liabilities.

41. Cost of Repairs

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at his cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

42. Completion of Construction and Maintenance

42.1. The Contractor shall request the Engineer to issue a certificate of completion of the construction of the works, and the Engineer will do so upon deciding that the works is completed. This shall be governed as per clause no.8 (g) of Standard General Conditions of Contract.

43. Taking Over

43.1. The Employer shall take over the works within seven days of the Engineer issuing a certificate of completion of works. The Contractor shall continue to remain responsible for its routine maintenance during the maintenance period if specified in the contract.

44. Final Account

Final joint measurement along with the representatives of the contractor should be taken recorded and signed by the Contractors. Contractors should submit the final bill within 1 month of physical completion of the work.

If the contractor fails to submit the final bill within 1 month, the BMC staff will prepare the final bill based on the joint measurement within next 3 months.

Engineer's decision shall be final in respect of claims for defect and pending claims against contractors.

No further claims should be made by the Contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payment of those items of the bills in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by the Commissioner shall be made within a reasonable period as may be necessary for the purpose of verification etc.

After payment of the final bill as aforesaid has been made, the contractor may, if he so desires, reconsider his position in respect of a disputed portion of the final bills and if he fails to do so within 84 days, his disputed claim shall be dealt with as provided in the contract.

A percentage of the retention money, over and above the actual retention money as indicated below shall be held back from payments till the finalization of final bill to be submitted as per above and will be paid within 30 days of acceptance of the final bill.

Sr. No.	Amount of Contract Cost	Minimum Payable Amount in final bill
1	Upto Rs.5 cr.	Rs.10 Lacs or final bill whichever is more
2	Upto Rs.25 cr.	Rs.1 Crore or final bill amount whichever is more
3	Upto Rs. 50 cr.	Rs.2 Crores or final bill amount whichever is more
4	Upto Rs.100 cr.	Rs.4 Crores or final bill amount whichever is more
5	More than Rs.100 cr.	Rs.7 Crores or final bill amount whichever is more

The contractor has to submit the bill for the work carried out within 15 days from the date of completion of the work to the respective executing department. If the contractor fails to submit their bills to concerned executing department, penalty or action as shown below will be taken for each delayed bill:-

After 15 days from the date of completion/ running bill upto certain date, upto next 15 days i.e. upto 30days	Equal to 5% of bill amount
Next 15 days upto 45 days from the date of completion/running bill upto specified date	Equal to 10% of bill amount
If not submitted within 45 days from the date of completion/ R.A. bill	Bill will not be admitted for payment.

45. Operating and Maintenance Manuals

45.1. If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.

45.2. If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract Data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor

46. Termination

46.1. The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

46.2. Fundamental breaches of Contract shall include, but shall not be limited to, the following:

- a) the Contractor stops work for 30 days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;

- b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
- c) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- d) the Contractor does not maintain a Security, which is required;
- e) The Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in relevant clause.
- f) The Contractor fails to provide insurance cover as required under relevant clause.
- g) If the Contractor, in the judgment of the Employer, has engaged in the corrupt or fraudulent practices as defined in GCC in competing for or in executing the Contract.
- h) if the Contractor fails to set up a field laboratory with the prescribed equipment, within the period specified in the Contract Data; and
- i) Any other fundamental breaches as specified in the Contract Data.
- j) If the Contractor fails to deploy machinery and equipment or personnel as specified in the Contract Data at the appropriate time.

46.3. When either party to the contract gives notice of a breach of contract to the Engineer for a cause other than those listed above, the Engineer shall decide whether the breach is fundamental or not.

46.4. Notwithstanding the above, the Employer may terminate the Contract for convenience.

46.5. If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

47. Payment upon Termination

47.1. If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for value of the work done and materials ordered less liquidated damages, if any, less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the Contract Data. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered from the security deposit, and performance security. If any amount is still left un-recovered it will be a debt due from the Contractor to the Employer

47.2. If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract, and less taxes due to be deducted at source as per applicable law.

48. Property

48.1. All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer for use for completing balance construction work if the Contract is terminated because of the Contractor's default, till the Works is completed after which it will be transferred to the Contractor and credit, if any, given for its use.

49. Release from Performance

If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of the Employer or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

A) Other Conditions of Contract

50. Labour

50.1. The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

50.2. The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the number of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

51. Compliance with Labour Regulations

- a) During continuance of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority.
- b) Furthermore, the Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including his amount of performance guarantee. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.
- c) The Contractor shall require his employees to obey all applicable laws, including those concerning safety at work.

- d) The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

52. Drawings and Photographs of the Works

52.1. The Contractor shall do photography/video photography of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work as required by Engineer In-charge and lastly after the completion of the work. No separate payment will be made to the Contractor for this.

52.2. The Contractor shall not disclose details of Drawings furnished to him and works on which he is engaged without the prior approval of the Engineer in writing. No photograph of the works or any part thereof or plant employed thereon, except those permitted under above clause, shall be taken or permitted by the Contractor to be taken by any of his employees or any employees of his sub-Contractors without the prior approval of the Engineer in writing. No photographs/ Video photography shall be published or otherwise circulated without the approval of the Engineer in writing.

53. The Apprentices Act, 1961

The Contractor shall duly comply with the provisions of the Apprentices Act 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so, he shall be subject to all liabilities and penalties provided by the said Act and said Rules.

54. Contract Document

The documents forming the contract are to be taken as mutually explanatory of one another. Unless otherwise provided in the contract, the priority of the documents forming the contract shall be, as follows:

1. Contract Agreement (if completed)
2. The letter of Acceptance
3. The Bid:
4. Addendum to Bid; if any
5. Tender Document
6. The Bill of Quantities:
7. The Specification:
8. Detailed Engineering Drawings
9. Standard General Conditions of Contracts (GCC)
10. All correspondence documents between bidder/contractor and BMC.

55. Conflict of Interest

The Applicant shall not have a conflict of interest (the “Conflict of Interest”) that affects the Bidding Process. Any Applicant found to have a Conflict of Interest shall be disqualified. An Applicant shall be deemed to have a Conflict of Interest affecting the Bidding Process, if

1. A constituent of such Applicant is also a constituent of another Applicant; or
2. Such Applicant has the same legal representative for purposes of this Application as any other Applicant; or
3. Such Applicant, or any Associate thereof has a relationship with another Applicant, or any Associate thereof, directly or through common third party/ parties, that puts either or both of them in a position to have access to each other's information about, or to influence the Application of either or each other; or
4. The Applicant shall be liable for disqualification if any legal, financial or technical adviser of the Authority in relation to the Project is engaged by the Applicant, its Member or any Associate thereof, as the case may be, in any manner for matters related to or incidental to the Project. For the avoidance of doubt, this disqualification shall not apply where such adviser was engaged by the Applicant, its Member or Associate in the past but its assignment expired or was terminated 6 (six) months prior to the date of issue of this TENDER. Nor will this disqualification apply where such adviser is engaged after a period of 3 (three) years from the date of commercial operation of the Project.

56. Applications and costs thereof

No Applicant shall submit more than one Application for the Project. An applicant applying individually shall not be entitled to submit another application either individually. The Applicant shall be responsible for all of the costs associated with the preparation of their Applications and their participation in the Bid Process. The Authority will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding Process.

57. Acknowledgment by Applicant

It shall be deemed that by submitting the Application, the Applicant has:

- a. made a complete and careful examination of the tender;
- b. received all relevant information requested from the Authority;
- c. accepted the risk of inadequacy, error or mistake in the information provided in the tender or furnished by or on behalf of the Authority relating to any of the matters referred; and
- d. Agreed to be bound by the undertakings provided by it under and in terms hereof.

“The Authority” shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to the TENDER or the Bidding Process, including any error or mistake therein or in any information or data given by the Authority.

58. Right to accept or reject any or all Applications/ Bids

Notwithstanding anything contained in this TENDER, “The Authority” reserves the right to accept or reject any Application and to annul the Bidding Process and reject all Applications/ Bids, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons therefore. In the event that the Authority rejects or annuls all the Bids, it may, in its discretion, invite all eligible Bidders to submit fresh Bids hereunder.

“The Authority” reserves the right to reject any Application and/ or Bid if:

- a) at any time, a material misrepresentation is made or uncovered, or
- b) The Applicant does not provide, within the time specified by the Authority, the supplemental information sought by the Authority for evaluation of the Application.

In case it is found during the evaluation or at any time before signing of the Agreement or after its execution and during the period of subsistence thereof including the concession thereby granted by “The Authority”, that one or more of the pre-qualification conditions have not been met by the Applicant, or the Applicant has made material misrepresentation or has given any materially incorrect or false information, the Applicant shall be disqualified forthwith if not yet appointed as the Successful Bidder either by issue of the LOA (Letter of Approval) or entering into of the Agreement, and if the Applicant has already been issued the LOA or has entered into the Concession Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in this TENDER, be liable to be terminated, by a communication in writing by “The Authority” to the Applicant, without the Authority being liable in any manner whatsoever to the Applicant and without prejudice to any other right or remedy which the Authority may have under this TENDER, the Bidding Documents, the Concession Agreement or under applicable law.

“The Authority” reserves the right to verify all statements, information and documents submitted by the Applicant in response to the TENDER. Any such verification or lack of such verification by the Authority shall not relieve the Applicant of its obligations or liabilities hereunder nor will it affect any rights of the Authority there under.

59. The bid shall be rejected if the bidder-

- a. Stipulates the validity period less than 180 days.
- b. Stipulates own condition/conditions.
- c. Does not fill and (digital) sign undertaking forms, which are incorporated, in the document.

60. Clarifications

Applicants requiring any clarification on the tender may notify “the Authority” in writing or by fax or e-mail. They should send in their queries before the date specified in the header data. “The Authority” shall Endeavour to respond to the queries within the period specified therein. The responses will be sent by fax and/or e-mail. The Authority will forward all the queries and its responses thereto, to all purchasers of the TENDER without identifying the source of queries.

“The Authority” shall Endeavour to respond to the questions raised or clarifications sought by the Applicants. However, the Authority reserves the right not to respond to any question

or provide any clarification, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring the Authority to respond to any question or to provide any clarification, but not later than the date provided in header data.

“The Authority” may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Applicants. All clarifications and interpretations issued by the Authority shall be deemed to be part of the tender. Verbal clarifications and information given by Authority or its employees or representatives shall not in any way or manner be binding on the Authority.

61. Amendment of tender

At any time prior to the deadline for submission of Application, the Authority may, for any reason, whether at its own initiative or in response to clarifications requested by an Applicant, modify the tender by the issuance of Addendum.

Any Addendum thus issued will be sent in writing/ Fax/ Email to all those who have purchased the tender.

In order to afford the Applicants a reasonable time for taking an Addendum into account, or for any other reason, the Authority may, in its sole discretion, extend the Application Due Date.

Preparation and Submission of Application

62. Language

The Application and all related correspondence and documents in relation to the Bidding Process shall be in English language. Supporting documents and printed literature furnished by the Applicant with the Application may be in any other language provided that they are accompanied by translations of all the pertinent passages in the English language, duly authenticated and certified by the Applicant. Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the Application, the English language translation shall prevail.

63. Format and signing of Application

The Applicant shall provide all the information sought under this TENDER. The Authority will evaluate only those Applications that are received in the required formats and complete in all respects. Incomplete and /or conditional Applications shall be liable to rejection. The Applicant will upload bid in One Folder in electronic form which shall contain the scanned certified copies of the documents given below and the documents uploaded has to be digitally signed by the bidder. These copies shall be certified by Practicing Notary approved by the Govt. of Maharashtra or Govt. of India with his stamp, clearly stating hisname& registration number, except where original documents are demanded.

64. Marking of Applications

The Applicant shall submit the Application in the format specified at Appendix-I, together with the documents, upload in folder as “VENDOR” together with their respective enclosures.

Applications submitted by fax, telex, telegram shall not be entertained and shall be rejected outright.

65. Late Applications

Applications received by the Authority after the specified time on the Application Due Date shall not be eligible for consideration and shall be summarily rejected.

66. Confidentiality

Information relating to the examination, clarification, evaluation, and recommendation for the short-listed qualified Applicants shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising the Authority in relation to or matters arising out of, or concerning the Bidding Process. The Authority will treat all information, submitted as part of Application, in confidence and will require all those who have access to such material to treat the same in confidence. The Authority may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/or the Authority or as may be required by law or in connection with any legal process.

67. Clarification Of Financial Bids

To assist in the examination, evaluation and comparison of Bids, the Engineer may, at his discretion, ask any bidder for clarification of his Bid, including breakdown of System rates. The request for clarification and the response shall be in writing or by post/facsimile/e-mail. No Bidder shall contact the Engineer on any matter relating to his bid from the time of the bid opening to the time the contract is awarded. Any effort by the Bidder to influence the Engineer in the Engineer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's bid.

68. Inspection of site and sufficiency of tender:

1. The Contractor shall inspect and examine the site and its surrounding and shall satisfy himself before submitting his tender as to the nature of the ground and subsoil (so far as is practicable), the form and nature of the site, the quantities and nature of the work and materials necessary for the completion of the works and means of access to the site, the accommodation he may require and in general shall himself obtain all necessary information as to risk, contingencies and other circumstances which may influence or affect his tender. He shall also take into consideration the hydrological and climatic conditions.
2. The Employer may make available to the Contractor data on hydrological and sub-surface conditions as obtained by or on his behalf from investigations relevant to the works but the Contractor shall be responsible for his own interpretation thereof. The contractor shall engage his investigating agency with prior approval of the Engineer from the approved list of such agencies by BMC or Govt at his cost initially before commencing actual work and which shall be reimbursed immediately subject to satisfaction of the Engineer for faithful compliance and submission of required data regarding such investigation within specified time.

3. The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the schedule of works / items / quantities, or in Bill of Quantities, which rates and prices shall, except as otherwise provided cover all his obligations under the Contract and all matters and things necessary for proper completion and maintenance of the works. No extra charges consequent on any misunderstanding.
4. **Not Foreseeable Physical Obstructions or Conditions:** If, however, during the execution of the Works the Contractor encounters physical obstructions or physical conditions, other than climatic conditions on the Site, which obstructions or conditions were, in his opinion, not foreseeable by an experienced contractor, the Contractor shall forthwith give notice thereof to the Engineer. On receipt of such notice, the Engineer shall, if in his opinion such obstructions or conditions could not have been reasonably foreseen by an experienced contractor, after due consultation with the Contractor, determine:
- any extension of time to which the Contractor is entitled and
 - The amount of any costs which may have been incurred by the Contractor by reason of such obstructions or conditions having been encountered, which shall be added to the Contract Price, and shall notify the Contractor accordingly.
 - Such determination shall take account of any instruction which the Engineer may issue to the Contractor in connection therewith, and any proper and reasonable measures acceptable to the Engineer which the Contractor may take in the absence of specific instructions from the Engineer. However such costing shall be got approved by the competent authority as governed vide rules prevailing with authority.
5. **Office for the Engineer (Works costing up to Rs.50 Lakhs)**
The Contractor shall at his own cost and to satisfaction of the Engineer provide a small temporary office, at the work-site which will include tables, chairs and lockers for keeping the records. He shall also make necessary arrangements for drinking water, telephone with a pre-requisite of e-governance and electronic communication. These offices are not to be allowed on public roads without the written instruction of the Engineer. These offices should be preferably located within 50 to 500 m of the worksite. In case the office is more than 500m away from the worksite, the contractor is to provide conveyance for Municipal Staff.
6. **Office for the Engineer (Works costing above Rs.50 lakhs)**
The Contractor shall at his own cost and to satisfaction of the Engineer provide a temporary office at the work-site which will include tables, chairs and lockers for keeping the records. He shall also make necessary arrangements for drinking water, latrines, with doors, windows, locks, bolts and fastenings sufficient for security for the Engineer, and his subordinates, as close to the works from time to time in progress as can be conveniently arranged, and shall at his own cost furnish the office with such chairs, tables, lockers, locks and fastenings as may be required by

the Engineer, and no expense of any kind in connection with the erection or upkeep of the offices or fittings shall be borne by the Corporation, but all such work shall be carried out by the Contractor and the expenses thereof defrayed by him. The Contractor shall also make water connections and fit up stand pipe with a bib tap at each office. The latrines and the water connections shall be subject to all the conditions herein elsewhere laid down for temporary water connection and latrines generally with all requisite equipments for e-governance and electronic and digital communication. These offices are not to be allowed on public roads without the written instruction of the Engineer. These offices should be preferably located within 50 to 500 m of the worksite. In case the office is more than 500m away from the worksite, the contractor is to provide conveyance. Also, for staff working beyond working hours the contractor has to provide conveyance.

7. Permission for provision and removal of office on completion of work:

The tenderer shall obtain permission for provision of site office, cement go-down, store, etc. on payment of necessary cost implication. The cement go-down, Watchman cabins, etc. shall be provided as directed and shall be removed by the Tenderers on completion of the work at their cost. It is binding on the Tenderer to fulfil requirements of Environmental Authorities. The location of such office shall be finalized and got approved from the Engineer before erection/commencement work.

8. Contractor's office near works: The Contractor shall have an office near the works at which notice from the Commissioner or the Engineer may be served and shall, between the hours of sunrise and sunset on all working days, have a clerk or some other authorized person always present at such office upon whom such notices may be served and service of any notices left with such clerk or other authorized person or at such office shall be deemed good service upon the Contractor and such offices shall have pre-requisite facilities for e-governance.

69. Official Secrecy:

The Contractor shall of all the persons employed in any works in connection with the contract that the India Official Secrets Act 1923 (XIX of 1923) applies to them and will continue to apply even after execution of the said works and they will not disclose any information regarding this contract to any third party. The contractor shall also bring into notice that, any information found to be leaked out or disclosed the concern person as well as the Contractor will be liable for penal action; further the Corporation will be at liberty to terminate the contract without notice.

70. Subsequent Legislation:

If on the day of submission of bids for the contract, there occur changes to any National or State stature, Ordinance, decree or other law or any regulation or By-laws or any local or other duly constituted authority or the introduction of any such National or State Statute, Ordinance, decree or by which causes additional or reduced cost to the Contractor, such additional or reduced cost shall, after due consultation with the Contractor, be determined by the concerned Engineering Department of BMC and shall be added to or deducted

from the Contract Price with prior approval of competent authority and the concerned Engineering Department shall notify the Contractor accordingly with a copy to the Employer. BMC reserve the right to take decision in respect of addition/reduction of cost in contract.

71. Patent, Right and Royalties:

The contractor shall save harmless and indemnify the Corporation from and against all claims and proceedings for or on account of infringement of any Patent rights, design trademark or name of other protected rights in respect of any constructional plant, machine work, or material used for or in connection with the Works or any of them and from and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Except where otherwise specified, the contractor shall pay all tonnage and other royalties, rent and other payments or compensation, if any, for getting stone, sand, gravel, clay or other materials required for the works or any of them.

72. Payments, Tax and Claims:

- **The limit for unforeseen claims**

Under no circumstances whatever the contractor shall be entitled to any compensation from BMC on any account unless the contractor shall have submitted a claim in writing to the Eng-in-charge within 1 month of the case of such claim occurring.

- **No interest for delayed payments due to disputes, etc. :**

It is agreed that the Brihanmumbai Municipal Corporation or its Engineer or Officer shall not be liable to pay any interest or damage with respect of any moneys or balance which may be in its or its Engineer's or officer's hands owing to any dispute or difference or claim or misunderstanding between the Municipal Corporation of Greater Bombay or its Engineer or Officer on the one hand and the contractor on the other, or with respect to any delay on the part of the Municipal Corporation of Greater Bombay or its Engineer or Officers in making periodical or final payments or in any other respect whatever.

73. Settlement of Disputes:

- **Termination of contract for death**

If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the legal representative of the individual Contractor or the proprietor of the proprietary concern and in case of partnership, the surviving partners, are capable of carrying out and completing the contract, the Commissioner shall be entitled to cancel the contract as to its uncompleted part without the Corporation being in any way liable to payment of any compensation to the estate of the deceased Contractor and or to the surviving partners of the Contractor's firm on account of the cancellation of the contract. The decision of the Commissioner that the legal representative of the deceased Contractor or surviving partners of the Contractor's firm cannot carry out and complete the contract shall be final and binding on the parties. In the event of such cancellation the Commissioner shall not hold estate of the deceased

Contractor and or surviving partners of the Contractor's firm liable in damages for not completing the contract.

- **Settlement of Disputes:**

If any dispute or differences of any kind whatsoever other than those in respect of which, the decision of any person is, by the Contract, expressed to be final and binding) shall arise between the Employer and the Contractor or the Engineer and the Contractor in connection with or arising out of the Contract or carrying out of the Works (Whether during the progress of the Works or after their completion and whether before or after the termination, abandonment or breach of the Contract) it, the aggrieved party may refer such dispute within a period of 7 days to the concerned Addl. Municipal Commissioner who shall constitute a committee comprising of three officers i.e. concerned Deputy Municipal Commissioner or Director (ES&P), Chief Engineer other than the Engineer of the Contract and concerned Chief Accountant. The Committee shall give decision in writing within 60 days. Appeal on the Order of the Committee may be referred to the Municipal Commissioner within 7 days. Thereafter the Municipal Commissioner shall constitute a Committee comprising of three Addl. Municipal Commissioners including Addl. Municipal Commissioner in charge of Finance Department. The Municipal Commissioner within a period of 90 days after being requested to do so shall give written notice of committee's decision to the Contractor. Save as herein provided such decision in respect of every matter so referred shall be final and binding upon both parties until the completion of the works, and shall forthwith be given effect to by the Contractor who shall proceed with the works with due diligence, whether he requires arbitration as hereinafter provided or not. If the Commissioner has given written notice of the decision to the Contractor and no Claim to arbitration has been communicated within a period of 90 days from receipt of such notice the said decision shall remain final and binding upon the Contractor.

74. Arbitration and Jurisdiction:

If the Commissioner shall fail to give notice of the decision as aforesaid within a period of 90 days after being requested as aforesaid, or if the Contractor be dissatisfied with any such decision, then and in any such case the Contractor may within 90 days after receiving notice of such decision or within 90 days after the expirations of the first named period of 90 days (as the case may be) require that the matter or matters in dispute be referred to arbitration as hereinafter provided. All disputes or differences in respect of which the decision (if any) of the Commissioner has not become final and binding as aforesaid shall be finally settled by Arbitration as follows:

Arbitration shall be effected by a single arbitrator agreed upon the parties. The arbitration shall be conducted in accordance with the provisions of the Arbitration Act, 1996 or any statutory modifications thereof, and shall be held at such place and time within the limits of Brihan Mumbai as the arbitrator may determine. The decision of the arbitrator shall be final and binding upon the parties hereto and the expense of the arbitration shall be paid as may be determined by the arbitrator. Performance under the Contract shall, if reasonably be possible, continued during the arbitration proceedings and payment due to the Contractor by the Employer shall not be withheld unless they are the subject matter of arbitration proceedings. The said arbitrator shall have full power to open up, review and revise any decision, opinion, direction, certification or valuation of the Commissioner and neither party shall be limited in the proceedings before such arbitrator to the evidence or arguments put before the Commissioner for the purpose of obtaining his said decision.

No decision given by the Commissioner in accordance with the foregoing provisions shall disqualify him from being called as a witness and giving evidence before the arbitrator on any matters whatsoever relevant to the disputes or difference referred to the arbitrator as aforesaid. All awards shall be in writing and for claims equivalent to 5,00,000 or more such awards shall state reasons for amounts awarded. The expenditure of arbitration shall be paid as may be determined by arbitrator.

In case of any claim, dispute or difference arising in respect of a contract, the cause of action thereof shall be deemed to have arisen in Mumbai and all legal proceedings in respect of any claim, dispute or difference shall be instituted in a competent court in the City of Mumbai only.

75. Copyright:

The copyright of all drawings and other documents provided by the Contractor under the contract shall remain vested in the Contractor or his sub-contractors as the case may be the employer shall have a license to use such drawings and other documents in connection with the design, construction, operation, maintenance of the works. At any time the Employer shall have further license without additional payment to the Contractor to use any such drawings or documents for the purpose of making any improvement of the works or enlargement or duplication of any part thereof, provided that such improvement, enlargement, or duplication by itself or in conjunction with any other improvements, enlargements or duplications already made in accordance with the further license does not result in the duplication of the whole works.

76. Receipts to be signed in firm's name by any one of the partners:

Every receipt for money which may become payable or for any security which may become transferable to the Contractor under these present shall, if signed in the partnership name by any one of the partners, be a good and sufficient discharge to the Commissioner and Municipal Corporation in respect of the money or security purporting to be acknowledged thereby, and in the event of death of any of the partners during the pendency of this contract, it is hereby expressly agreed that every receipt by any one of the surviving partners shall, if so signed as aforesaid, be good and sufficient discharge as aforesaid provided that nothing in this clause contained shall be deemed to prejudice or effect any claim which the Commissioner or the Corporation may hereafter have against the legal representatives of any partners so dying or in respect of any breach of any of the conditions thereof, provided also that nothing in this clause contained shall be deemed prejudicial or affect the respective rights or obligations of the Contractors and of the legal representatives of any deceased Contractors interest.

77. Proprietary data

All documents and other information supplied by the Authority or submitted by an Applicant to the Authority shall remain or become the property of the Authority. Applicants are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their Application. The Authority will not return any Application or any information provided along therewith.

78. Correspondence with the Applicant

Save and except as provided in this TENDER, the Authority shall not entertain any correspondence with any Applicant in relation to the acceptance or rejection of any Application.

79. Price Variation Clause

The Contractor shall be reimbursed or shall refund to the Corporation as the case may be the variation in the value of the work carried out from time to time, depending on whether the prices of material and labour as a whole rise or fall, and the method adopted for such computations shall be as given below, it being clearly understood that the contractor shall have no claim for being reimbursed on the ground that the price of a particular material or group of materials have risen beyond the limits of the presumptions made in the following paras, however, no price variations shall be made applicable for contracts up to 12 months:

A) Controlled materials: Price variations shall be permitted in respect of these materials the price level of which is controlled by the Government or its agency. The rate ruling on the date of submission of the tender shall be considered as the basic price of such material for adjustment. Any variation in this rate shall be considered for reimbursement to the contractor or refund to be claimed from the contractor as the case may be. The contractor shall, for the purpose of adjustment submit in original the relevant documents from the suppliers.

B) Labour and other materials: For the purpose of this contract and for allowing reimbursement or refund on account of variation of prices of (i) labour, and (ii) materials other than materials mentioned in A above, computation will be based on the formula enunciated below which is based on the presumptions that :

i) The general price level of labour rises or falls in proportion to the rise or fall of consumer price index number 9 (general) for working class in Mumbai.

ii) The general price level of materials rises or falls in proportion to rise or fall of whole-sale price index as published by 'Economic Adviser to Govt. of India'.

iii) And that the component of labour is to the extent of 30 percent of 88 percent and the component of materials is to the extent of 70 percent of 88 percent of the value of the work carried out. The remaining 12 percent being the presumptive profit of the contractor.

a) Formula for Labour component:

$$VL = \frac{(0.88 R) \times 30 \times (I - IO)}{100IO}$$

b) Formula for Material component :

$$VM = \frac{(0.88 R \times 70 - C) \times (W - WO)}{100WO}$$

Where -

VL = Amount of price variation to be reimbursed or claimed as refund on account of general rise or fall of index referred to above.

I = Consumer Price Index number of working class for Mumbai declared by the Commissioner of Labour and Director of Employment, Mumbai) applicable to the period under reference (base year ending 2004-05 as 100 i.e. new series of indices).

IO = Consumer price index number for working class for Mumbai (declared by the Commissioner of labour and Director of Employment, Mumbai) prevailing, on the day of 28 days prior to the date of submission of the tender.

VM = The amount of price variation to be reimbursed or claimed as refund on account of general rise or fall of wholesale price index for period under reference.

W = Average wholesale price index as published by Economic Adviser to Govt. of India applicable to the period under reference.

WO = Wholesale price index as stated above prevailing on the day of 28 days prior to the date of submission of the tender.

R = Total value of the work done during the period under reference as recorded in the Measurement Book excluding water charges and sewerage charges but including cost of excess in respect of item upto 50 percent

C = Total value of Controlled materials used for the works as recorded in Measurement Book and paid for at original basic rate plus the value of materials used .

- i) The quantity of the Controlled material adopted in working out the value of 'C' shall be inclusive of permitted wastages as / if mentioned in specifications.
- ii) The basic rate for the supply of controlled material shall be inclusive of all the components of cost of materials excluding transport charges incurred for bringing the material from place of delivery to the site.

Computations based on the above formula will be made for the period of each bill separately and reimbursement will be made to (when the result is plus) and refund will be claimed from (when the result is minus) the contractor's next bill. The above formulae will be replaced by the formulae in Annexure-I as and when mentioned in special conditions of contract

The operative period of the contract for application of price variation shall mean the period commencing from the date of commencement of work mentioned in the work order and ending on the date when time allowed for the work order and ending on the date when time allowed for the work specified in the contract for work expires, taking into consideration, the extension of time, if any, for completion of the work granted by Engineer under the relevant clause of the conditions of contract in cases other than those where such extension is necessitated on account of default of the contractor.

The decision of the Engineer as regards the operative period of the contract shall be final and binding on the contractors.

- iii) Where there is no supply of controlled items to contractor the component 'C' shall be taken as zero.
- C) Adjustment after completion: If the Contractor fails to complete the works within the time for completion adjustment of prices thereafter until the date of completion of the works shall be made using either the indices or prices relating to the prescribed time for completion, or the current indices or prices whichever is more favourable to the employer, provided that if an extension of time is granted, the above provision shall apply only to adjustments made after the expiry of such extension of time.
- D) Price variation will be calculated similarly and separately for extra items and / or excess quantities and provisional sums calculated under Sub Clause 10 (b)A i) &(ii) and Sub Clause 10 (b) B(ii) based on the above formula/formulae in Annexure-I as and when mentioned in Special conditions of contract; IO and WO being the indices applicable to the date on which the rates under Sub Clause 10 (a)A (i)&(ii) and Sub Clause 10 (a) B(iii) are fixed. No price variation shall be admissible for FAIR items created during execution.

80. Maximum Price Variation shall be as follows:

Time Period of Project	Maximum limit of Price Variation
Up to 12 months	No variation allowed
Above 12 months to 24 months	5%
Above 24 months	10%

Note:

- 1) **The extension in time period for the projects originally estimated including monsoon results in change of price variation slabs as mentioned above i.e. from first slab to second slab or from second slab to third slab, then the maximum limit of original slab will prevail.**
- 2) Operative period shall mean original or extended time period of contract.

For example:

Extension of Time period	Maximum Price Variation
If original period of 11 months including monsoon extends to 16. The operative period will be 11+5 months.	No variation allowed
If original period of 11 months excluding monsoon extends to 16. The operative period will be 11+5 months.	Maximum 5% variation allowed

Price Variation during Extended Period of Contract:

- (i) **Extension Due To Modification & Extension for delay due to BMC :**

The price variation for the period of extension granted shall be limited to the amount payable as per the Indices. In case the indices increases or decreases, above/below the indices applicable, to the last month of the original or extended period vide clause 8(l)(a)(i) and (ii) of standard GCC

(ii) Extension Of Time For Delay Due To Contractor :

- (a) The price variation for the period of extension granted shall be limited to the amount payable as per the Indices in case the indices increase, above the indices applicable, to the last month of the original completion period or the extended period vide above clause 8(l)(a)(i) and (ii) of standard GCC.
- (b) The price variation shall be limited to the amount payable as per the indices, in case the indices decrease or fall below the indices applicable, to the last month of original / extended period of completion period vide above clause 8(l)(b) of standard GCC, then lower indices shall be adopted.

(iii) Extension of Time For Delay due to reasons not attributable to BMC and Contractor (Reference Cl.8(d) of Standard GCC):

The price variation for the period of extension granted shall be limited to the amount payable as per the Indices in case the indices increases or decreases, above/below the indices applicable, to the last month of the original period.

81. Payment:

Interim Payment:

- i) Interim bills shall be submitted by the Contractor from time to time (but at an interval of not less than one month) for the works executed. The Engineer shall arrange to have the bills verified by taking or causing to be taken, where necessary, the requisite measurement of work.
- ii) Payment on account for amount admissible shall be made on the Engineer certifying the sum to which the Contractor is considered entitled by way of interim payment for all the work executed, after deducting there from the amount already paid, the security deposit / retention money and such other amounts as may be deductible or recoverable in terms of the contract.
- iii) On request, the contractor will be paid upto 75 percent of the value of the work carried out as an adhoc payment in the first week of next month after deducting there from recoveries on account of advances, interest, retention money, income tax etc. The balance payment due will be paid thereafter.
- iv) No interim payment will be admitted until such time the Contractor have fully complied with the requirement of the Condition no.8 (g) and 8 (h) concerning submission and approval of Network Schedule for the works, as detailed in Condition 8 (h). A fixed sum shall be held in abeyance at the time of next interim payment for non-attainment of each milestone in the network and shall be released only on attainment of the said milestone.

- v) An interim certificate given relating to work done or material delivered may be modified or corrected by a subsequent interim certificate or by the final certificate. No certificate of the Engineer supporting an interim payment shall of itself be conclusive evidence that any work or materials to which it relates is / are in accordance with the contract.

82. Banning/De-Registration of Agencies of Construction works in BMC

The regulations regarding Demotion/ Suspension Banning for specific period or permanently / De-Registration shall be governed as per the respective condition in Contractor Registration Rules of BMC.

83. JOINT VENTURE (Not applicable)

In case if Joint Venture is allowed for the Project, the guidelines for JV as follows shall be incorporated in the Tender Document:

- a) Joint Venture should be allowed only when the number of identifiable different works is more than one and/or the estimated cost of tender is more than Rs.100 Crores. JV shall also be allowed for complex technical work below Rs.100 Crores with the approval of concerned AMC
- b) Separate identity/name shall be given to the Joint Venture firm.
- c) Number of members in a JV firm shall not be more than three in normal circumstances, if the work involves only one discipline (say Civil or Electrical). If number of members in JV is required to be more than three, then approval of concerned AMC needs to be sought.
- d) A member of JV firm shall not be permitted to participate either in individual capacity or as a member of another JV firm in the same tender.
- e) The tender form shall be purchased and submitted in the 'name of the JV firm or any constituent member of the JV.
- f) Normally EMD shall be submitted only in the name of the JV and not in the name of constituent member. However, EMD in the name of lead partner can be accepted subject to submission of specific request letter from lead partner stating the reasons for not submitting the EMD in the name of JV and giving written confirmation from the JV partners to the effect that the EMD submitted by the lead partner may be deemed as EMD submitted by JV firm.
- g) One of the members of the JV firm shall be the lead member of the JV firm who shall have a majority (at least 51%) share of interest in the JV firm. The other members shall have a share of not less than 20% each in case of JV firms with up to three members and not less than 10% each in case of JV firms with more than three members. In case of JV firm with foreign member(s), the lead member has to be an Indian firm with a minimum share of 51%.
- h) A copy of Letter of Intent or Memorandum of Understanding (MoU) executed by the JV members shall be submitted by the JV firm along with the tender. The complete details of the members of the JV firm, their share and responsibility in the JV firm etc. particularly with reference to financial technical and other obligation shall be furnished in the agreement.

- i) Once the tender is submitted, the agreement shall not be modified/alterd/terminated during the validity of the tender. In case the tenderer fails to observe/comply with this stipulation, the full Earnest Money Deposit (EMD) shall be forfeited. In case of successful tenderer, the validity of this agreement shall be extended till the currency of the contract expires.
- j) Approval for change of constitution of JV firm shall be at the sole discretion of the BMC. The constitution of the JV firm shall not be allowed to be modified after submission of the tender bid by the JV firm except when modification becomes inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. In any case the Lead Member should continue to be the Lead Member of the JV firm. Failure to observe this requirement would render the offer invalid.
- k) Similarly, after the contract is awarded, the constitution of JV firm shall not be allowed to be altered during the currency of contract except when modification become inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract condition.
- l) On award of contract to a JV firm, a single Performance Guarantee shall be required to be submitted by the JV firm as per tender conditions. All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization advance, machinery Advance etc. shall be accepted only in the name of the JV firm and no splitting of guarantees amongst the members of the JV firm shall be permitted.
- m) On issue of LOA, an agreement among the members of the JV firm (to whom the work has been awarded) has to be executed and got registered before the Registrar of the Companies under Companies Act or before the Registrar / Sub-Registrar under the Registration Act, 1908. This agreement shall be submitted by the JV firm to the BMC before signing the contract agreement for the work. (This agreement format should invariably be part of the tender condition). In case the tenderer fails to observe/comply with this stipulation, the full Earnest Money Deposit (EMD) shall be forfeited and other penal actions due shall be taken against partners of the JV and the JV. This joint venture agreement shall have, inter-alia, following clauses:-
 - i. Joint and several liability - The members of the JV firm to which the contract is awarded, shall be jointly and severally liable to the Employer (BMC) for execution of the project in accordance with General and Special conditions of the contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the BMC during the course of execution of the contract or due to no execution of the contract or part thereof.
 - ii. Duration of the Joint Venture Agreement -It shall be valid during the entire period of the contract including the period of extension if any and the maintenance period after the work is completed.
 - iii. Governing Laws - The Joint Venture Agreement shall in all respect be governed by and interpreted in accordance with Indian Laws.

- iv. Authorized Member -Joint Venture members shall authorize one of the members on behalf of the Joint Venture firm to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV firm.

No member of the Joint Venture firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other members and that of the employer in respect of the said tender/contract.

- n) Documents to be enclosed by the JV firm along with the tender:
 - i. In case one or more of the members of the JV firm is/are partnership firm(s), following documents shall be submitted:
 - a. Notary certified copy of the Partnership Deed,
 - b. Consent of all the partners to enter into the Joint Venture Agreement on a stamp paper of appropriate value (in original).
 - c. Power of Attorney (duly registered as per prevailing law) in favor of one of the partners to sign the MOU and JV Agreement on behalf of the partners and create liability against the firm.
 - ii. In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed:
 - a. Affidavit on Stamp Paper of appropriate value declaring that his Concern is a Proprietary Concern and he is sole proprietor of the Concern OR he is in position of "KARTA" of Hindu Undivided Family and he has the authority, power and consent given by other partners to act on behalf of HUF.
 - iii. In case one or more members is/are limited companies, the following documents shall be submitted:
 - a. Notary certified copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, authorizing MD or one of the Directors or Managers of the Company to sign MOU, JV Agreement, such other documents required to be signed on behalf of the Company and enter into liability against the company and/or do any other act on behalf of the company.
 - b. Copy of Memorandum and articles of Association of the Company.
 - c. Power of Attorney (duly registered as per prevailing law) by the Company authorizing the person to do/act mentioned in the para (a) above.
 - o) All the members of the JV shall certify that they have not been black listed or debarred by BMC from participation in tenders/contract in the past either in their individual capacity or the JV firm or partnership firm in which they were members / partners.
 - p) Credentials & Qualifying criteria: Technical and financial eligibility of the JV firm shall be adjudged based on satisfactory fulfilment of the following criteria:

Technical eligibility criteria: In case of Work involving single discipline, the Lead member of the JV firm shall meet at least 35% requirement of technical capacity as stipulated in tender document.

OR

In case of composite works (e.g. works involving more than one distinct component such as Civil Engineering works, M&E works, Electrical works, etc. and in the case of major bridges, substructure and superstructure etc.), at least one member should have satisfactorily completed 35% of the value of any one component of the project work so as to cover all the components of project work or any member having satisfactorily completed 35% of the value of work of each component during last seven financial years.

In such cases, what constitutes a component in a composite work shall be clearly defined as part of the tender condition without any ambiguity.

Financial eligibility criteria: The contractual payments received by the JV firm or the arithmetic sum of contractual payments received by all the members of JV firm in any one of the previous three financial years and shall be at least 100% of the estimated value of the work as mentioned in the tender.

84. Compensation for delay:

If the Contractor fails to complete the works and clear the site on or before the Contract or extended date(s) / period(s) of completion, he shall, without prejudice to any other right or remedy of Municipal Corporation on account of such breach, pay as agreed compensation, amount calculated as stipulated below (or such smaller amount as may be fixed by the Engineer) on the contract value of the whole work or on the contract value of the time or group of items of work for which separate period of completion are given in the contract and of which completion is delayed for every week that the whole of the work of item or group of items of work concerned remains uncompleted, even though the contract as a whole be completed by the contract or the extended date of completion. For this purpose the term 'Contract Value' shall be the value of the work at Contract Rates as ordered including the value of all deviations ordered:

- Completion period for projects (originally stipulated or as extended) not exceeding 6 months: **to the extent of maximum 1 percent per week.**
- Completion period for projects (originally stipulated or as extended) exceeding 6 months and not exceeding 2 years: **to the extent of maximum ½ percent per week.**
- Completion period for projects (originally stipulated or as extended) exceeding 2 years: **to the extent of maximum ¼ percent per week.**

When the delay is not a full week or in multiple of a week but involves a fraction of a week the compensation payable for that fraction shall be proportional to the number of days involved.

Provided always that the total amount of compensation for delay to be paid this condition shall not exceed the undernoted percentage of the Contract Value of the item or group of items of work for which a separate period of completion is given.

- i) Completion period (as originally stipulated or as extended) not exceeding 6 months: **10 percent.**
- ii) Completion period (as originally stipulated or as extended) exceeding 6 months and not exceeding 2 years: **7½ percent.**
- iii) Completion period (as originally stipulated or as extended) exceeding 2 years: **5 percent.**

The amount of compensation may be adjusted set off against any sum payable to the contractor under this or any other contract with the Municipal Corporation.

85. Action And Compensation Payable In Case Of Bad Work And Not Done As Per Specifications

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in-charge, his authorized subordinates in charge of the work and all the superior officers, officer of the Vigilance Department of the BMC or any organization engaged by the BMC for Quality Assurance and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-charge or his authorized subordinates in-charge of the work or to the officer of Vigilance Department, that any work has been executed with unsound, imperfect or unskilful workmanship or with materials of any inferior description, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 8.e. of the general condition of contract in section 9 of tender document (for Compensation for delay) for this default. In such case the Engineer-in Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the Engineer in charge may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

If the penalisation amount exceeds maximum limit with respect to Clause 8.e of Standard General Conditions of Contract, then a show cause notice shall necessarily be issued to the contract as to why the contract should not be terminated.

86. Contractors remain liable to pay compensation:

In any case in which any of the powers conferred upon the Engineer In-charge by the **relevant clauses** in documents that form a part of contract as exercised or is exercisable in the event of any future case of default by the Contractor, he is declared liable to pay compensation amounting to the whole of his security deposit. The liability of the Contractor for past and future compensation shall remain unaffected.

In the event of the Executive Engineer taking action against these relevant clauses, he may, if he so desires, take possession of all or any tools and plant, materials and stores in or upon the work of site thereof or belonging to the Contractor or procured by him and intended to be used for the execution of the work or any part thereof paying or allowing for the same in account at the contract rates, or in the case of contract rates not being applicable at current market rates to be certified by the Executive Engineer, may after giving notice in writing to the Contractor or his staff of the work or other authorized agent require him to remove such tools and plants, materials or stores from the premises within a time to be specified in such notice and in the event of the Contractor failing to comply with any such requisition, the Executive Engineer may remove them at the contractors expense of sell them by auction or private sell on account of the Contractor at his risk in all respects and certificate of the Executive Engineer as to the expense of any such removal and the amount of the proceeds an expense of any such sell be final and conclusive against the Contractor.

87. No Claim To Any Payment Or Compensation Or Alteration In Or Restriction Of Work

- (a) if at any time after the execution of contract documents, the Engineer shall for any reason whatsoever, desires that the whole or any part of the works specified in the Tender should be suspended for any period or that the whole or part of the work should not be carried out, at all, he shall give to the Contractor a Notice in writing of such desire and upon the receipt of such notice, the Contractor shall forthwith suspend or stop the work wholly or in part as required after having due regard to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injury the work already done or endanger the safety thereof, provided that the decision of the Engineer as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the contractor.

The Contractor shall have no claim to any payment or compensation whatsoever by reason of or in pursuance of any notice as aforesaid, on account of any suspension, stoppage or curtailment except to the extent specified hereinafter.

- (b) Where the total suspension of Work Order as aforesaid continued for a continuous period exceeding 90 days the contractor shall be at liberty to withdraw from the contractual

obligations under the contract so far as it pertains to the unexecuted part of the work by giving 10 days prior notice in writing to the Engineer within 30 days of the expiry of the said period of 90 days, of such intention and requiring the Engineering to record the final measurement of the work already done and to pay final bill. Upon giving such Notice, the Contractor shall be deemed to have been discharged from his obligations to complete the remaining unexecuted work under his contract. On receipt of such notice the Engineer shall proceed to complete the measurement and make such payment as may be finally due to the contractor within a period of 90 days from the receipt of such Notice in respect of the work already done by the contractor. Such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provisions of this clause.

- (c) Where the Engineer required to Contractor to suspend the work for a period in excess of 30 days at any time or 60 days in the aggregate, the Contractor shall be entitled to apply to the Engineer within 30 days of the resumption of the work after such suspension for payment of compensation to the extent of pecuniary loss suffered by him in respect of working machinery remained ideal on the site of on the account of his having an to pay the salary of wages and labour engaged by him during the said period of suspension provided always that the contractor shall not be entitled to any claim in respect of any such working machinery, salary or wages for the first 30 days whether consecutive or in the aggregate or such suspension or in respect of any such suspension whatsoever occasion by unsatisfactory work or any other default on his part, the decision of the Engineer in this regard shall be final and conclusive against the contractor.

88. Contractor to supply plant, ladder, scaffolding, etc. and is liable for damages arising from non-provision of lights, fencing, etc.

The Contractor shall supply at his own cost all material, plant, tools, appliances, implements, ladders, cordage, tackle scaffolding and temporary works requisite or proper for the proper execution of the work, whether, in the original altered or substituted form and whether included in the specification of other documents forming part of the contract or referred to in these conditions or not and which may be necessary for the purpose of satisfying or complying with the requirements of the Eng-In-Charge as to any matter as to which under these conditions is entitled to be satisfied, or which is entitled to require together with the carriage therefore to and from the work.

The Contractor shall also supply without charge, the requisite number of person with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurements of examination at any time and from time to time of the work or materials, failing which the same may be provided by the Engineer In-charge at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof, or offers sufficient portion thereof.

The contractor shall provide all necessary fencing and lights required to protect the public from accident and shall also be bound to bear the expenses of defence of every suit, action or other legal proceedings, that may be brought by any person for injury

sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit action or proceedings to any such person or which may with the consent of the contractor be paid for compromising any claim by any such person.

89. Prevention of Fire :

The contractor shall not set fire to any standing jungle, trees, brushwood or grass without a written permit from the Engineer In-charge. When such permit is given, and also in all cases when destroying cut or dug up trees brushwood, grass, etc., by fire, the contractor shall take necessary measure to prevent such fire spreading to or otherwise damaging surrounding property. The Contractor shall make his own arrangements for drinking water for the labour employed by him.

90. Compensation for all damages done intentionally or unintentionally by contractor's labour whether in or beyond the limits of BMC property including any damage caused by spreading the fire shall be estimated by the Engineer In-charge or such other officer as he may appoint and the estimate of the Engineer in-charge to the decision of the Dy. Chief Engineer on appeal shall be final and the contractor shall be bound to pay the amount of the assessed compensation on demand failing which the same will be recovered from the Contractor as damages or deducted by the Engineer In-charge from any sums that may be due or become due from BMC to contractor under this Contract or otherwise. Contractor shall bear the expenses of defending any action or other legal proceedings that may be brought to prevent the spread of fire and he shall pay any damages and costs that may be awarded by the Court in consequence.

91. In the case of Tender by partners, any change in the constitution of the firm shall be forthwith, notified by the contractor through the Engineer In-charge for his information.

92. Action where no specifications :

In the case of any class of work for which there is no such specifications, such works shall be carried out in accordance with the specifications and in the event of there being no such specifications, then in such case, the work shall be carried out in all respects in accordance with all instructions and requirements of the Engineer In-charge.

93. Safety and medical help :

- (i) The Contractor shall be responsible for and shall pay the expenses of providing medical help to any workmen who may suffer a bodily injury as a result of an accident. If such expenses are incurred by BMC, the same shall be recoverable from the contractor forthwith and be included without prejudice to any other remedy of BMC from any amount due or that may become due to the Contractor.
- (ii) The contractor shall provide necessary personal safety equipment and first-aid box for the use of persons employed on the site and shall maintain the same in condition suitable for immediate use at any time.
- (iii) The workers shall be required to use the safety equipments so provided by the contractor and the contractor shall take adequate steps to ensure the proper use of equipments by those concerned.

(iv) When the work is carried on in proximity to any place where there is risk or drawing all necessary equipments shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.

94. No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land or in the case of clearance of works, on account of ant delay in according to sanction of estimates.

95. Anti-malaria and other health measures:

Anti-Malaria and other health measures shall be taken as directed by the Executive Health Officer of BMC. Contractor shall see that mosquito genic conditions are created so as to keep vector population to minimum level. Contractor shall carry out anti-malaria measures in the area as per the guidelines issued by the Executive Health Officer of BMC from time to time.

In case of default, in carrying out prescribed anti-malaria measures resulting in increase in malaria incidence, contractor shall be liable to pay BMC on anti-malaria measures to control the situation in addition to fine.

SECTION 10

**SPECIFICATIONS &
SELECTION OF MATERIAL**

TECHNICAL SPECIFICATIONS

General:

The 'Sewer Cleaning Robo' is basically a water jet crawler robot with various attachments consisting of high pressure jetting operation for effective cleaning / removal of hard blockages in 300 – 1000 mm sewer lines. The machine has additional function of miscellaneous repair work of damaged/ broken sewer lines with later reinstatement cutter. The contractor shall supply, operate & comprehensively maintain Sewer Cleaning Robo Vehicle (01 No.). The Vehicle shall be utilized in 02 (Two) shifts per day in Pipe & Main Sewer City, E/Sub. & W/Sub. Sections of Sewerage Operation Department. The contractor shall operate and comprehensively maintain the Vehicle for a period of 01 (One) year.

The Sewer Cleaning Robo to be supplied shall have following Technical Specifications -

- 1) Vehicle Chassis.
- 2) Sewer Cleaning Robot & Accessories
- 3) Operating and control System
- 4) High Pressure Unit & related pressure rated components
- 5) Box Integration
- 6) UV Light-cured Packer (UVP) System

1) Vehicle Chassis:-

The Sewer Cleaning Robo shall be mounted on suitable vehicle chassis. The chassis shall be right hand driven, full forward control vehicle chassis of reputed make. The vehicle chassis shall have BS-VI or higher emission norms or as applicable at the time of registration of vehicle with R.T.O. Mumbai.

The bidder shall submit the detailed layout drawing of the 'Sewer Cleaning Robo' to be mounted on vehicle chassis with weight distribution of the different components and load distribution of the machine during plying of the vehicle in Packet 'B'. The bidder shall also submit the power calculations for various components of the machine to ascertain the adequateness of power at shaft available from the engine to run the various systems in Packet 'B'.

The fully built vehicle shall comply following dimensions -

- | | |
|---------------------------|----------------------|
| a. G.V.W. | : Approx. 14 Tonnes |
| c. Overall length | : Approx. 8300 mm |
| d. Overall width | : Approx. 2400 mm |
| e. Maximum overall Height | : Approx. 3.2 meters |
| f. Wheelbase | : Approx. 4500 mm |

It is the responsibility of the contractor to get the Sewer Cleaning Robo Vehicle registered with R.T.O., Mumbai in favour of B.M.C.. The chassis shall conform to R.T.O's. emission norms (BS-VI compliant or higher) or as applicable at the time of registration of vehicle with R.T.O. Mumbai. It shall be noted that overall dimension of the fully built vehicle shall be in the permissible limits as per the RTO Norms. The length, width, height (mentioned above) of fully built vehicle shall be fully compliant with RTO norms as well as tender requirements related to overhang, height, width, length etc. while all standard equipments/ accessories required for smooth functioning of machine are installed on the machine. The chassis manufacturer's letter regarding above compliances shall be submitted along with tender.

Engine:-

The engine of the vehicle shall be diesel engine developing the minimum power of approx. 160 HP to transport the Sewer Cleaning Robo at various sites run all the equipment's component mounted on the same chassis. The vehicle chassis shall have standard features like clutch, gear box, power steering, Anti-lock Braking System, suitable chassis frame.

Others:-

The dashboard of the cabin shall be provided as per standard specifications of the chassis manufacturer. The standard tool kit, hydraulic jack, towing pin at front & operator's manual in English shall be provided with each chassis.

If any kind of tampering by the contractor to the chassis sub frame is found by BMC Engineer without written permission of chassis manufacturer & this department, the chassis with complete machine shall be rejected outright.

Contd...

2) Sewer Cleaning Robot & Accessories:

b. The Sewer Cleaning Robot shall be suitable for deployment in sewer line manholes and sewer lines of Dia. 300 -1000 mm. It shall consist of following equipments / components-

i. Base Robot (Crawler) (01 No.):

- a. The crawler shall have infinite rotation [with Ultra High Pressure (UHP) Swivel inside the head of the robot] for convenient working while removing deposits at the bottom of the pipe.
- b. The crawler shall be made up of heavy duty stainless steel with pressure, rotation & temperature sensor for sensing relevant parameters during cleaning work
- c. The various job-specific equipment modules shall be easily exchanged for underground pipe inspection, cleaning, cutting and rehabilitation from lined 300mm (12") pipes and larger with a variety of wheels and spacers.
- d. The crawler shall be used in UHP water jet cutting for removal of solid obstructions and settled deposits, Lateral reinstatement & cutting protruding taps, UV spot repair patches, Removing rocks, debris and other items from pipelines with the gripper & CCTV Inspection.
- e. The crawler shall also be compatible with vehicle integrated control units, cable and hose reels.
- f. The crawler shall have sensors for its internal pressure and temperature as well as its roll and inclination. The measurements shall be displayed on the control screen.

g. Specifications:

- Max. pressure: approx. 3000 bar
- Drive: All Wheel Drive (AWD) – Electric
- Rotation (pan): Infinite - Electric
- Length: Approx. 650 mm
- Weight: Approx. 50 kg

h. Accessories:

- Wheels and Spacers
- Additional weights
- Auxiliary lighting

ii. Grinding, milling and cutting module (01 No.):

- a. The module shall be used for reinstating service connections after CIPP relining and cutting protruding laterals of any material from inside 300 – 1000mm sewer lines.
- b. It shall be made of heavy duty material, shall have speed adjustable movements & compatible with Base Robot / Crawler.
- c. The module shall have infinite rotation, wide angle camera for visibility with both a water lens cleaner and on demand lens wiper, and very precise and operator friendly controls.

d. Specifications:

- Movements : 4-axis
- Drive : AWD – Electric
- Rotation (pan) : Infinite - Electric
- Ram lift : 325mm and shall be hydro-pneumatic
- Cutter pivot (tilt) : 90° and shall be hydro-pneumatic
- Camera rotation : Infinite - Electric
- Lighting : Intensity adjustable LEDs
- Lens cleaner : Water & On-demand wiper
- Length : Approx. 600 mm
- Weight : Approx. 25kg

e. Accessories:

- Gripper

iii. **Cutting Motor (01 No.):**

The Water Motor (Cutting Motor) compatible with Grinding, milling and cutting module or any other cutters shall be provided.

iv. **Precision Water Jet Cutting Module (01 No.):**

- a. The module shall apply continuous high pressure / low volume water blast, with precisely steerable nozzle for controlled removal of tree roots, solidified fats, grease, grout, cement, scaling, settled deposits and solid obstructions from sewer line and their lateral connections.
- b. The module shall have arrangement to adjust water pressure, angle with pipe and distance to the material so to achieve the breakdown and elimination of various obstructions without causing any damage to the pipe structure.
- c. It shall be made up of heavy duty material, shall be compatible with Base Robot / Crawler & shall be suitable for Sewer line size having Dia. 300-1000 mm.

d. Specifications:

- Max. pressure : 3000 bar
- Movements : 4-axis
- Drive : AWD – Electric
- Rotation (pan) : Infinite - Electric
- Ram lift : Approx. 500 mm and shall be hydro-pneumatic
- Nozzle pivot (tilt) : 90° and shall be Hydro-pneumatic
- Camera rotation : Simultaneous with nozzle

- Lighting : Intensity adjustable LEDs
- Lens cleaner : Compressed air
- Length :Approx. 650mm
- Weight :Approx. 35kg

e. Accessories

- Gripper

v. **Cutter Bit Set (01 No.):**

Following cutter bits, wrench shall be supplied in rugged casing with foam inlay.

- Premium diamond Mushroom cutter bit
- Liner CUT Pro tapered cutter bit
- Disc adapter, 2 x M14 nut, extension 40mm
- Diamond cutting blades 115mm
- Wrench

- vi. The Accessories Wheel & Spacers Set (01 No.) & Wheel 230 mm (04 Nos.) compatible with Crawler shall be supplied.

Contd...

3) Operating and Control System:

The Robot Support System shall consist of following equipments / components-

i. Operating Software (01 No.):

- a. The robots and high pressure units with digital controls shall be operated from a windows (Touch Screen) PC with IDRIS / compatible operating software and the joysticks of the control unit.
- b. The operating software shall be modular built and therefore compatible with crawler and all job-specific modules.
- c. The operating software is used to facilitate all communication between the different system components and the control unit for visualization of sensor readings, to display live camera picture and to control all functions of the crawler, job-specific modules and reels.
- d. The software shall allow text overlays, including but not limited to pipe details to be displayed and photos and videos to be captured during all operations. The operating software shall also be used for high pressure units with digital controls to visualize sensor readings, start- and stop the engine, open- and close the high pressure valve and to adjust the RPM of the engine and thus the pressure and flow.
- e. The software operating screen shall provide easy access to the most important information and operating functions. The data from the crawler, such as the pressure and temperature inside the crawler, and the (clock) rotation, pitch and roll, distance (footage) counter in the reels, live video, text overlay, diagnostic messages and various operating functions and access to operating menus shall be displayed.
- f. The pump control software shall be displayed besides the operating software and shall include gauges for the pre-pressure, motor RPM and (ultra) high pressure and buttons to start the engine, change the rpm and open- and close the valve.

ii. Control panel with two joysticks for desk integration (01 No.):

- a. The crawlers and job-specific modules shall be used as a mobile configuration or integrated into a vehicle.
- b. The control panel shall be flush-mounted in a desk for a vehicle integrated system. It shall be ergonomic to use and good looking, while minimizing transport damage and setup times. The dual 6-axis joysticks are used in combination with a 27" touch screen PC top to operate the system.
- c. This control panel with touch screen PC shall be compatible with crawlers and job-specific modules for cutting, CCTV Inspection and UV spot repair.

iii. Network Profinet (Process Field Network) (01 No.):

It shall allow exchange of data between devices and controllers in system.

iv. **Capacitive touch screen PC (01 No.):**

The 27" touch screen shall be capacitive with suitable Processor such as Intel i5, at least 512 GB SSD hard disc, 16GB RAM, RJ45, WiFi, USB Connections and Microsoft Windows Operating System.

v. **Electric Hybrid cable (180 m) & hybrid cable reel- combined air and signals (01 No.):**

- a. The contractor shall supply 180m hybrid cable along with reel for combined air and signals.
- b. The hybrid cable and reel shall be provided with easy serviceable strain relief.
- c. The Kevlar (strong, heat-resistant synthetic fibre) protected hybrid cable shall hold wiring for power, video and communication around an air supply hose for the pneumatic movements and positive pressure inside the transporter and modules.
- d. The cable shall be 8mm air, 4x2.5 mm², 4x0.5 mm² with approx. per meter weight of 170 g.
- e. The electric Hybrid Cable reel shall be installed in a heavy duty stainless steel frame and shall hold a standard 180m hybrid cable.
- f. The reel shall be electric driven, adjustable speed, distance measurement and can be controlled from the reel, the control unit or a remote control.
- g. The hybrid cable and reel shall be compatible with base robot/crawler and all the job-specific modules.
- h. Specifications:
 - Standard length : 180 m
 - Dimensions :Approx. 800x500x1000 mm
 - Weight : Appox. 200 kg
 - Drive : Electric
 - Shall be compatible with hybrid cables.

vi. **Air supply set (01 No.):**

- a. Air supply set shall consist of oil-free air compressor, air tank, debris filter, mist separator and vortex air dryer.
- b. The robot systems shall utilize compressed air to maintain positive pressure inside the crawler, protecting against external elements and enabling various functions such as hydro-pneumatic movements and pneumatic lens cleaners.
- c. The air supply package shall include a proven setup with an oil-free, silent air compressor and a filtering and de-moisturizing system to ensure clean and moisture-free air.
- d. The Specifications of Air Compressor shall be as follows-
 - Volume :Approx. 40 LPM
 - Max. pressure: : 8bar
 - Tank capacity: : 5L

- Electric power: : 0.45 kW
 - Dimensions: :Approx. 300x 350x 400 mm
- e. The Air Filtering System shall have pressure gauge, pressure regulator, vortex air dryer and mist separator.

vii. High Pressure Hose & Electric Hose Reel (01 No.):

- a. The contractor shall supply 150m length standard hose of diameter 3/8” along with compatible Electric High Pressure Hose Reel.
- b. Working pressure : Approx. 1100 BAR
- c. Cover : Polyurethane
- d. Reinforcements : Braids of aramia fiber and steel wire
- e. Connections : Quick tool connection
- f. Weight : Approx. 450 gr/m
- g. The electric High pressure hose reel shall be installed in a heavy duty stainless steel frame and shall hold a standard 150m length & 3/8” size high pressure hose for applications with a working pressure up to 1100 BAR.
- b. The hose reel shall be electric driven with cross lead spindle, adjustable speed, and shall be controlled from the reel, the control unit or a remote control. It shall have loop detection sensor.
- c. The rotating speed of the reel shall be adjusted depending torque when the electric High pressure hose reel is used simultaneously with the Electric hybrid cable reel.
- d. Electric Hose Reel Specifications:
- Approx. Dimensions : 800x500x1000 mm
 - Approx. Weight : 200kg
 - Drive : Electric
 - Swivel Movement

viii. Portable Ultra High Pressure Hose with Hose Reel Carrier (02 Nos.):

- a. The contractor shall supply portable heavy, sturdy ultra high pressure hose of 5/16” Dia. & cumulative length of approx. 100 m with suitable Hose reel carrier(s)
- b. It shall have working pressure of 1500 BAR
- c. The hose shall have Polyamide cover with 4 Spirals of Maximum Tensile Steel Wire.
- d. The couplings shall be M 9/16-18 UNF Left handed.
- e. The approx. Weight shall be 0.5 kg/m

ix. **Accessories:** The following accessories shall be supplied-

a. **Stainless steel hose and cable protector (01 No.):**

- The Stainless Steel Cable and hose protector for the pipe entry point shall be supplied.
- It shall be easily adaptable over the cable and hose & shall self position at the pipe entry.
- It shall have adequate number of Rollers.

b. **Extra weight set (rear weight, strain relief, bottom plate)(01 No.):**

- The suitable extra weight set for additional traction and stability shall be supplied.
- The suitable strain relief weight with locking ring shall also be supplied for high pressure hose.
- The suitable rear weight, belly weight shall also be supplied.

c. **Maintenance package for operating and control system(01 No.):** The Maintenance package with spare parts containing following items shall be supplied-

- Robot and module seals set
- Robot and module bolt set
- High-pressure hose coupling repair set (02 Nos.)
- Allen key set
- M12 connector torque wrench
- Screwdriver with socket 8mm
- Spare high pressure couplings
- Spare twist-and-lock parts
- Spare bolts and nuts
- Spare pneumatic valves
- Spare cutter motor bearings
- Spare air couplings and hoses
- Spare M12 cable

d. **Cable Repair Set(01 No.):**

- The Cable repair set compatible with cables in the Vehicle shall be supplied.
- The set shall contain all required tools, mechanical and electronic parts for fast cable re terminations at location.

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4) High Pressure Unit and pressure rated components:

The Sewer Cleaning Robot shall consist of following equipments / components-

i. Nozzle kit (01 No.):

- a. The different nozzle types, orifice diameter and lengths shall be supplied to optimize the angle and reach of the water blast as well as the RPM of the high pressure unit for fast and efficient removal of deposits. The straight 'pinpoint' nozzle shall be supplied to remove harder materials, such as concrete, grout and mineral deposits. Whereas a rotary nozzle shall be supplied to remove softer materials like tree roots and solidified fats and greases.
- b. The suitable nozzle extensions shall be supplied to regulate the water blast angle and to broaden water jet robot's capability for larger pipelines. This shall protect the delicate pipes by avoiding a direct 90-degree impact.
- c. Nozzle kit shall contain following items-
 - 4 straight jet orifices and o-rings
 - Nozzle measuring gauge
 - Rotary nozzle - Max. W.P. 2800 BAR
 - Rotary nozzle repair kit
 - Spare nozzle holder
 - Nozzle offset 100mm
 - Nozzle offset 200mm
 - Nozzle offset 300mm
 - Hard plastic case with foam inlay

ii. High Pressure Unit (01 No.):

- a. The diesel engine driven High Pressure Unit shall be built inside compact & sound-proof canopy.
- b. Engine:
 - The High Pressure Unit shall be driven by a 4-Cylinder, liquid cooled 75 HP, fuel efficient Suitable Stage VI diesel engine.
 - The diesel engine shall have low fuel consumption, low noise & vibration, cold startability and shall be compliant with latest emission standards.
 - The Fuel Tank of approx. 75L capacity with a low center of gravity shall be conveniently built inside the canopy frame.
- c. High Pressure Pumps (HPP):
 - The direct driven suitable HPP with pressure upto 1500 Bar and suitable flow rate shall be provided. The Pump shall be easily accessible for servicing.

- The pump head shall be made up of stainless steel material & plungers shall be made up of ceramic material.
- d. Wireless Remote Control: The wireless receiver with remote control shall be provided to start/ stop, adjust the RPM (pressure) and open/ close the by-pass valve.
 - e. The High Pressure Unit (HPU) shall have intuitive digital controls that can be used with suitable software for a seamless integration of the pump controls with robot components.
 - f. All the connections shall be convenient for ease of operation & minimum startup time.
 - g. The HPU shall be built inside compact, sound-proof canopy (approx. size 1800mm x 850mm x 1100 mm) and shall be suitably fitted on vehicle chassis. It shall have access doors on 3 sides.
 - h. The HPU shall have Electronic over pressure monitoring, Electronic water supply pressure monitoring & Emergency stop.
 - i. The HPU shall have built in digital controls and sensors for continuous pressure adjustments and immediate pump operation without leaving the robot control.
 - j. The HPU shall be built for ideal pressure and flow combination for optimal performance, efficiency and compact design to fit inside a chassis.
 - k. The shall deliver max. pressure of 1500 Bar and min. pressure of 400 bar. And flow 19 lpm at 1500 Bar to control the reaction force.
 - l. The HPU shall have pressure sensor to protect the pump from running with a low water supply.

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5) Customized Box and integration:

It shall have following components-

a. Box for truck with side and rear barn doors (01 No.):

- i. The special purpose build box for maximized operating convenience and efficiency with interior and installation of the equipment shall be supplied. The Box shall be divided in a front compartment for the high pressure unit and water tank, operator studio and working area in the rear.
- ii. Box Material: insulated multilayered fiberglass reinforced foam with wooden panels.
- iii. Outside dimensions: Approx. 6000 (L) x 2300 (W) x 2250 (H) mm.
- iv. The contractor shall submit Draft floor plan of Box mounted on suitable vehicle chassis along with Drawing/s for approval of Engineer.
- v. It shall have following doors for access-
 - o Side access door for High pressure unit access
 - o Side roll-up door (shutters) for tank access
 - o Side access door for studio access
 - o Rear double barn (sliding) doors for work area access
 - o Slide-out stairs installed at rear
 - o Foldable stairs installed at the side
 - o Solar panels installed on the roof
- vi. Front compartment: The compartment shall have-
 - o 2000L welded HDPE vertical water tank
 - o Approx. tank dimensions: 1700x650x1900mm
 - o Top filling with piping
 - o Top side manhole
 - o Pump, drain, overflow and level piping
 - o Installed Tank sensor
 - o High pressure unit installed with air duct
 - o Installed CCTV Camera towards High pressure unit
 - o Installed Rooftop air conditioner
- vii. Operator studio (access from the side and the rear):
 - o 1400mm length (4.5ft)
 - o Bright white from the inside
 - o Partition wall with sliding door installed towards rear
 - o Side door
 - o Composite or coated floor

- Switched, LED interior lighting
 - Installed white upper cabinetry
 - Emergency stop, receptacles and wiring installed in trunkings
 - High Pressure Laminate (HPL) Desk (with integrated control panel)
 - 27” Touch Screen PC installed and secondary monitor
 - Installed multi camera CCTV vicinity system
 - Installed Fire extinguisher, first aid kit and whiteboard
- viii. **Working Room (access from the rear and studio):** It shall have
- Double rear barn doors
 - Switched, LED interior lighting
 - Installed CCTV Camera’s towards reel and manhole
 - Composite or coated floor
 - Battery and inverter power supply installed
 - Installed Robot storage drawers
 - Installed Cable and high pressure hose reels
 - Swiveling crane with electric hoist installed in stainless portal frame
 - Aluminum work benches with HDPP tops
 - Power receptacles and compressed air connections in trunkings
 - Installed Compressed air reel
 - Installed Tool chest
 - Installed Additional monitor
- b. **Water connection / filter set:**
- i. The water connection / filter package includes all fittings and connections from tank to high pressure unit.
 - ii. It shall include level pipe, filling connections, filling filters and valves, water supply connections to the high pressure unit, tank drain, by-pass connection from the high pressure unit.
- c. **Battery and Inverter/ charger power pack (01 Set)**
- i. The battery-powered cutting sets (01 No.) having rechargeable lithium-ion battery packs with a smart Battery Management System (BMS) and inverter shall be provided.
 - ii. The battery shall be safe, require no maintenance and shall have longer cycle life, extended lifespan, better charge efficiency, and improved discharge.
- iii. **Batter Specifications:**
- Type : Lithium Iron phosphate
 - Capacity : 15 KWH

- Voltage : 51.2VDC (2x 200AH)
 - Durability :shall be more than 3500 cycles at 80% capacity retention
 - BMS : High reliability intelligent BMS
 - Weight : Approx. 140 kg
 - Accessories : display or digital remote
- iv. Inverter/ Charger:
- Capacity : 10kW
 - Voltage : 48VDC 220VAC
 - Charged via : Solar panels or the vehicle's alternator
- d. The suitable capacity Roof Top Air-conditioner shall be installed.
- e. **Swiveling crane with electric hoist and pneumatic lock**
The Job crane with swivel movement with electric hoist and pneumatic lock shall be provided for safe and convenient lowering and lifting the robot in the manhole.
- f. The Box mounting set with rails, mounting brackets and fenders shall be provided.
- g. The galvanized Foldable stairs with 2 steps shall be provided.
- h. The Slide out stairs with 5 steps shall be provided.
- i. The Storage Box of Appox. Size 800x600x600 mm shall be provided.
- j. The Toolbox with 7 drawers shall be provided.
- k. The tool chest with 200 hand tools, including screwdrivers, hex keys, plyers, wrenches and ratchet sets shall be provided.

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6) UV Light-cured Packer (UVP) System:

- The UVP System shall be used for renovation of longitudinal / radial cracks from inside of sewer pipe by installing 600mm long UV-cured resin pre-impregnated fiberglass patch.
- It shall be suitable for patching inside sewer lines with a diameter ranging from 150-500mm. It shall be compatible with Base Robot / Crawler specified in the Technical Specifications of tender.
- The UV-packer shall be used as an equipment module for the base robot / crawler or as stand-alone to be used with a cable, push rods.
- It shall have a forward facing camera with LED ring and a variety of sensors inside to monitor the air pressure and curing temperature inside the bladder. And to measure the inflation and deformation inside the bladder.
- It shall have following components-

a. Desk Integrated Packer Control Panel (01 No.)

- i. The Packer Control Panel designed for desk integration shall be provided with convenient pneumatic controls installed within the desk. The air line connections shall be positioned at the rear of the vehicle.
- ii. The Packer Control shall have following components-
 - Air pressure supply gauge
 - Air pressure 1 (Packer) gauge
 - Air pressure 1 (Packer) regulator
 - Air pressure 2 (Top Hat) gauge
 - Air pressure 2 (Top Hat) regulator
 - Connections 1 (Packer) and 2 (Top Hat) at the rear of the vehicle
 - Venturi for fast deflation at the rear of the vehicle

b. UVP light source 7 segments of LED, temperature sensor, diameter measurement, HD fisheye camera (01 No.)

- i. The UVP LED light-train shall have low power consumption and shall be suitable for sewer lines of differing diameters from 150 to 500mm by easily exchanging the end-discs and bladders of the packer.

c. Specifications

- Scope of use: 150 – 500mm
- Curing time: 6 – 10 Minutes
- Power: 100-230V, 50-60Hz
- Max. pressure: 25 bar

- Renovation lengths: 600mm (24’)
- Data logging: : Air pressure, Deformation, Curing temperature

d. **UV liner on a roll (30 Mtrs.):**

- i. The UV- cured liner material shall be supplied on 600mm (24’)
- ii. The material shall be a light curing glass reinforced polyester (G.R.P.), manufactured in a sheet form comprising a matrix of polyester resin, glass reinforcement, special inert fillers and photo-initiator, sandwiched between two thin nylon protection films. The upper film, which is permeable for UV-light, stays during the application.
- iii. The material shall be supplied in two thickness options: 1.5mm or 2.0mm. It can be installed either as a single layer with a thickness of 1.5mm or 2.0mm, or as a double layer stack with a minimum thickness of 3mm or 4mm.
- iv. In uncured state, the material of liner shall be soft and pliable, so that it can be cut or trimmed to any shape or dimension, required and then shaped, wrapped, laid and bonded to any object or surface
- v. On exposure to UV radiation the liner material shall begin to harden. The cured liner shall be strong, rot-proof and durable material with good mechanical and heat resistant properties. It shall be Impermeable to water & resistant to large number of acids, chemicals and solvents.
- vi. The contractor shall have sufficient stock of UV Liner material to address sewer line related repair work related to UV lining. The 30Mtr. Role of UV liner shall be supplied at the time of supply of Robo Vehicle.
- vii. Following Items shall be provided as a part of system:
 - e. Packer sleeve front disc 100mm (01 No.)
 - f. Packer sleeve rear disc 100mm (01 No.)
 - g. UV bladder of size ø104x900(02 Nos.)
 - h. Packer sleeve front disc 150mm (01 No.)
 - i. Packer sleeve rear disc 150mm (01 No.)
 - j. UV bladder of size ø155x950(02 Nos.)
 - k. Packer sleeve front disc 200mm (01 No.)
 - l. Packer sleeve rear disc 200mm (01 No.)
 - m. UV bladder of size ø200x950(02 Nos.)

7) On-Site Demonstration / Inspection:

The on-site demonstration / inspection of Sewer Cleaning Robo vehicle shall be carried out at any the B.M.C. site decided by engineer of department. The contractor shall issue certificates for the satisfactory performance of the individual components as well as for complete Vehicle. The charges for on-site demonstration / inspection shall be borne by the contractor.

8) Service Centre Facility: -

The Chassis Manufacturer shall have after Sales Service facility within the vicinity of Mumbai Metropolitan Region. The bidder shall submit the documentary proof for the same from the Chassis Manufacturer.

9) Handing over of Machine:

The Sewer Cleaning Robo Vehicle shall be handed over to the contractor for providing services of operation and comprehensive maintenance for contract period of 01 Year after the issue of purchase order. After completion of O&M contract the Vehicle shall be handed over back to B.M.C in good working condition with no pending dues of RTO/ traffic penalties. Failing which, the security deposit shall not be released.

SPECIAL CONDITIONS OF THE TENDER

- i. The order of blacklisting / poor performance of the bidder or its manufacturer / associates / parents / subsidiary / group company by any Government organization in India should not have been in forced on the day of publishing of this tender. The bidder shall submit an undertaking as per attached format.

Sr. No.	Description	Details
1.	Price:	The price shall be all inclusive & firm.
2.	Contract Period:	Supply: 08 (Eight) Months from the date of receipt of PO. Operation & Comprehensive Maintenance: 01 (One) Year.
3.	Payment:	<p>a) <u>Supply</u>- After successful completion of Supply & Testing at site, the payment shall be made within 30 days from the date of receipt of bill.</p> <p>b) <u>Operation</u>-The payment shall be made on ‘Monthly’ basis as per the per shift rate quoted by contractor. The payment shall be made within 30 days from the date of receipt of bill with monthly log sheets and summary sheets duly signed by concerned Municipal Engineer, in duplicate to the office of E.E.Mech.(M.S.)City.</p> <p>c) <u>Vehicle Insurance</u>- The payment shall be made as per actual expenses borne by contractor for ‘Yearly Vehicle Insurance Premium’. The contractor shall submit copy of receipt of premium paid towards Vehicle Insurance & Vehicle Insurance Copy received from Insurance Company after payment. The payment will be made to the contractor within 30 days from the receipt of above documents. In any case, the actual expenses incurred by contractor on Vehicle Insurance Premium shall not exceed ‘Vehicle Insurance’ Cost quoted by contractor. No extra payment shall be made to contractor above the ‘Yearly Vehicle Insurance’ cost quoted by them.</p> <p>e) No payment shall be made to the contractor if the vehicle is not be utilized by BMC.</p>
4.	Security Deposit:	The contractor shall submit the security deposit @ 2% of the total contract cost. The security deposit can be paid in the form of cash / DD / Pay Order / Bank Guarantee from BMC approved bank in the prescribed format as per B.M.C. procedure. The Security deposit shall be refunded to the contractor after successful completion of work.

Sr. No.	Description	Details
5.	Penalty:	<p>1) <u>Supply</u>: As per General Conditions of Contract Clause No. (84) Compensation for delay.</p> <p>2) For not complying with the documents and equipments as per Annexure-I and II within 15 days from the date of issue of PO, a penalty of Rs.5,000/- per day per vehicle shall be imposed and recovered from the contractor's bill.</p> <p>3) For failing to start the work of providing services of operation within 15daysfrom the date of approval of documents and equipments as per Annexure-I and II by B.M.C Engineer, a penalty of Rs. 5,000/- per day per vehicle shall be imposed and recovered from the contractor's bill.</p> <p>4) No operational payment shall be made when the vehicle is non operative on available working shift due to absenteeism of contractor's staff. In addition to that a penalty of Rs. 2,000/- shall be recovered. However, such loss of shifts will be covered from contractor by working in additional shifts.</p> <p>5) For not completing the minor repair works within 3 days of the breakdown, a penalty of Rs.3,000/- per day thereafter shall be recovered till the proper functioning of the vehicle.</p> <p>6) If there is any major problem with Machine / equipments / vehicle, the volume of repair work to be done & time frame required for the same will be verified & certified by Ex. Engineer of Main Sewer Section. If the repair work is not completed within the allowed time frame, a penalty of Rs.5,000/- per day thereafter shall be recovered till the proper functioning of the complete vehicle.</p> <p>7) For not using Safety equipment's specified in Annexure-II or part thereof, a penalty of Rs. 3,000/- per shift shall be imposed and recovered.</p> <p>8) For not achieving specified output, a penalty of Rs.2,000/- per shift shall be recovered from the contractor. Besides, no shift payment shall be made to the contractor for such shifts. However, for not achieving specified output due to site conditions, no penalty shall be imposed and the payment will be made on pro rata basis of the shift output.</p> <p>9) All the above penalties shall be recovered from the contractor's monthly bill / SD</p>

Sr. No.	Description	Details
6.	Retention Money:	NA.
7.	GST:	<p>GST and other state levies/cess which are not subsumed under GST will be applicable. The tenderer shall quote inclusive of all taxes applicable at the time of bid submission. It is clearly understood the BMC will not bear any additional liability towards payment of any Taxes & Duties.</p> <p>Wherever the services to be provided by the Tenderers, falls under Reverse Charge Mechanism, the Price quoted shall be exclusive of GST, but inclusive of Taxes/Duties/Cess other than GST, if any.</p> <p>Rates accepted by BMC shall hold good till completion of work and no additional individual claim shall be admissible on account of fluctuations in market rates; increase in taxes/any other levies/ tolls etc. except that payment/recovery for overall market situation shall be made as per Price variation and if there is any subsequent change (after submission of bid) in rate of GST applicable on the work/services to be executed as per tender, i.e. any increase will be reimbursed by BMC whereas any reduction in the rate of GST shall be passed on to BMC as per the provisions of the GST Act.</p>
8.	Additional Security Deposit;	This being an item rate tender the clause of ‘Additional Security Deposit’ is not applicable to this tender.
9.	e-Challan for Stamp Duty for Bonds	In case of e-Challan for payment of stamp duty for various bonds, affidavits, etc. as specified in the tender, the bidder shall clearly mention the e-Tender No. & description of the document in ‘Remarks’ Section of e-Challan. Failing which, their Bonds Affidavits, etc. shall not be accepted.

TERMS & CONDITIONS

- 1) Each Vehicle to be operated for two shifts in a day. On any working day in a week, the vehicles shall be taken for carrying out necessary preventive maintenance. The payment for preventive maintenance shall be made to the contractor at actual after submitting Bills & supporting documents related to preventive maintenance.
- 2) The fuel, consumables, spares, staff, etc. required for operation & maintenance of the vehicles shall be arranged by the contractor at their cost.
- 3) During emergency situation, the contractor shall render the operation service continuously day & night.
- 4) 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. Moreover, contractor will be solely responsible for any theft of vehicle or part thereof and he shall have to take corrective measures for the same.
- 5) The contractor shall keep close liaison with the Municipal Engineer for daily vehicular requirement & work performance.
- 6) The contractor shall collect the formats of daily log-sheets, maintenance schedule, summary sheets, etc. from the office of Main Sewer City Section.
- 7) The contractor shall submit the information of the staff appointed for Operation of the vehicles regarding Identity cards, address, age, Mobile phone numbers, etc. The contractor shall submit the contact number of staff for communication.
- 8) If the operation of the vehicles is required at time on any day including Sundays & Holidays and during emergency in addition to the routine program, it would be the responsibility of the contractor to provide the staff along with the vehicles as directed by Engineer. Also, the contractor shall provide the services in any of the wards other than specified in scope of work in Mumbai City/Suburbs with prior instructions from Executive Engineer.
- 9) The contractor shall get registered themselves under Contract Labour Act, EPF & MP Act, 1952 & ESIC Act of 1948 & shall submit the Certificate of Registration in the office of Main Sewer City Section.
- 10) The staff employed by the contractor shall be covered with all statutory labour laws in vogue as mentioned in clause 12 of General Conditions of Contract. All the staff employed shall have to be insured. The contractor in this regard shall submit the necessary documents before starting the work.

- 11) The vehicle shall have valid pollution control certificate (PUC) at all the time and copies of the same shall be kept with the driver and shall be provided whenever demanded.
- 12) The contractor shall keep the Municipal Commissioner, 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 B.M.C or others, whether resulting directly through any accident or otherwise life or property while carrying out any work & 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 Municipal Commissioner. Any claim arising due to statutory requirement in the form of compensation / damages, etc. to site workers / employees / Machines / vehicle shall be borne by the contractor.
- 13) During the period of this contract, the contractor at his own cost, shall abide at all times, by the Government's Labour regulations, Rules, Laws etc. amended from time to time and as may be in force or introduced in future, during the course of this contract, by registering with all such statutory authorities, filling returns, as may be required, as per the laws. The contractor shall submit an Undertaking on Rs.500/- stamp paper stating that they are paying their staff as per Minimum Wages Act-1948, revised by the GOM and adapted by B.M.C time to time. They shall submit the wage details to B.M.C. The contractor shall pay the salary to the staff appointed for work as per the latest Circular of Chief Labour Officer of BMC and shall abide to the Minimum Wages Act 1948.

The special conditions of the tender as specified above shall supersede the terms & conditions stipulated elsewhere in the tender document.

SELECTION OF MATERIAL

1. All materials brought on the site of work and meant to be used in the same, shall be the best of their respective kinds and to the approval of the Engineer. The Engineer or his representative will accept that the materials are really the best of their kinds, when it is proved beyond doubt that no better materials of the particular kind in question are available in the market.
2. ~~The contractor shall obtain the approval of the Engineer of samples of all materials to be used in the works and shall deposit these samples with him before placing an order for the materials with the suppliers. The materials brought on the works shall conform in every respect to their approved samples. Fresh samples shall be deposited with the Engineer whenever the type or source of any material changes.~~
3. ~~The contractor shall check each fresh consignment of materials as it is brought to the site of works to see that they conform in all respects to the Specifications of the samples approved by the Engineer, or both.~~
4. The Engineer will have the option to have any of the materials tested to find out whether they are in accordance with the Specifications and the Contractor will bear all expenses for such testing. All bills, vouchers and test certificates, which in the opinion of the Engineer or his representative are necessary to convince him as to the quality of the materials or their suitability shall be produced for his inspection when required.
5. Any materials that have not been found to conform to the specifications will be rejected forthwith and shall be removed from the site by the contractor at his own cost within 24 hours.
6. The Engineer shall have power to cause the Contractors to purchase and use such materials from any particular source, as may in his opinion be necessary for the proper execution of the work.
7. ~~Notwithstanding the source, the sand shall be washed using sand washing machine before use.~~

SECTION 11

**FRAUD AND
CORRUPT PRACTICES**

FRAUD AND CORRUPT PRACTICES

- The Applicants 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.
- Without prejudice to the rights of the Authority under relevant Clause hereinabove, if an Applicant is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bidding Process, such Applicant shall not be eligible to participate in any tender or RFQ issued by the Authority during a period of 2 (two) years from the date such Applicant is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be.
- For the purposes of this Clause, the following terms shall have the meaning hereinafter respectively assigned to them:
 - A. **“corrupt practice”** means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to, or employing, or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly, with the Bidding Process or the LOA or has dealt with matters concerning the Concession Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); **or**
save and except as permitted under the relevant sub clause, engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOA or after the execution of the Concession Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Concession Agreement, who at any time has been or is a legal, financial or technical adviser of the Authority in relation to any matter concerning the Project;

- B. “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;
- C. “coercive practice”** means impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any persons participation or action in the Bidding Process;
- D. “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
- E. “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.
- F.** If the Employer/Financier determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 14 days’ notice to the Contractor, terminate the Contractor's employment under the Contract and expel him from the Site, and the provisions of relevant Clause shall apply as if such expulsion had been made.
- G.** Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed in accordance with relevant Clause.

For the purposes of this Sub-Clause:

- i. “corrupt practice” is the offering, giving, receiving to soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- ii. “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes Financier staff and employees of other organizations taking or reviewing procurement decisions.
- iii. “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

- iv. “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- v. “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- vi. “obstructive practice” is deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede the Financier investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
- vii. acts intended to materially impede the exercise of the Financier’s inspection and audit rights provided .
- viii. “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.
- ix. ”parties” refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non-competitive levels.
- x. a “party” refers to a participant in the procurement process or contract execution.

SECTION 12

PRE BID MEETING

PREBID MEETING

Pre-bid meeting of the interested parties shall be convened at the designated date, time and place. A maximum of three representatives of each Applicant shall be allowed to participate on production of authority letter from the Applicant.

During the course of Pre-bid meeting, the Applicants will be free to seek clarifications and make suggestions for consideration of the Authority. The Authority shall Endeavour to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Bidding Process.

SECTION 13

LIST OF APPROVED BANKS

LIST OF APPROVED BANKS

1. The following Banks with their branches in Greater Mumbai and in suburbs and extended suburbs up to Virar and Kalyan have been approved only for the purpose of accepting Banker's guarantee from 1997-98 onwards until further instructions.
2. The Bankers Guarantee issued by branches of approved Banks beyond Kalyan and Virar can be accepted only if the said Banker's Guarantee is countersigned by the Manager of a branch of the same Bank, within the Mumbai Limit categorically endorsing thereon that said Bankers Guarantee is binding on the endorsing Branch of the bank within Mumbai limits and is liable to be enforced against the said branch of the Bank in case of default by the contractor/supplier furnishing the Bankers Guarantee.

3. List of approved Banks:-

A	S.B.I and its subsidiary Banks
1	State Bank Of India.
2	State Bank Of Bikaner & Jaipur.
3	State Bank Of Hyderabad.
4	State Bank Of Mysore.
5	State Bank Of Patiala.
6	State Bank Of Saurashtra.
7	State Bank Of Travancore.
B	Nationalized Banks
8	Allahabad Bank.
9	Andhra Bank.
10	Bank Of Baroda.
11	Bank Of India.
12	Bank Of Maharashtra.
13	Central Bank Of India.
14	Dena Bank.
15	Indian Bank.
16	Indian Overseas Bank.
17	Oriental Bank Of Commerce.
18	Punjab National Bank.

19	Punjab & Sindh Bank.
20	Syndicate Bank.
21	Union Bank Of India.
22	Systemed Bank Of India.
23	UCO Bank.
24	Vijaya Bank.
24A	Corporation Bank.
C	Scheduled Commercial Banks
25	Bank Of Madura Ltd.
26	Bank Of Rajasthan Ltd.
27	Banaras State Bank Ltd.
28	Bharat Overseas Bank Ltd
29	Catholic Syrian Bank Ltd.
30	City Union Bank Ltd.
31	Development Credit Bank.
32	Dhanalakshmi Bank Ltd.
33	Federal Bank Ltd.
34	Indusind Bank Ltd.
35	I.C.I.C.I Banking Corporation Ltd.
36	Global Trust Bank Ltd.
37	Jammu & Kashmir Bank Ltd.
38	Karnataka Bank Ltd.
39	KarurVysya Bank Ltd.
40	Laxmi Vilas Bank Ltd.
41	Nedugundi Bank Ltd.
42	Ratnakar Bank Ltd.
43	Sangli Bank Ltd.
44	South Indian Bank Ltd.
45	S.B.I Corporation & Int Bank Ltd.
46	Tamilnadu Mercantile Bank Ltd.
47	Systemed Western Bank Ltd.
48	Vysya Bank Ltd.

D	Schedule Urban Co-op Banks
49	Abhyudaya Co-op Bank Ltd.
50	Bassein Catholic Co-op Bank Ltd.
51	Bharat Co-op Bank Ltd.
52	Bombay Mercantile Co-op Bank Ltd.
53	Cosmos Co-op Bank Ltd.
54	Greater Mumbai Co-op Bank Ltd.
55	JanataSahakari Bank Ltd.
56	Mumbai District Central Co-op Bank Ltd.
57	Maharashtra State Co-op Bank Ltd.
58	New India Co-op Bank Ltd.
59	North Canara G.S.B. Co-op Bank Ltd.
60	Rupee Co-op Bank Ltd.
61	Sangli Urban Co-op Bank Ltd.
62	Saraswat Co-op Bank Ltd.
63	ShamraoVithal Co-op Bank Ltd.
64	Mahanagar Co-op Bank Ltd.
65	Citizen Bank Ltd.
66	Yes Bank Ltd.
E	Foreign Banks
67	ABM AMRO (N.Y.) Bank.
68	American Express Bank Ltd.
69	ANZ Grindlays Bank Ltd.
70	Bank Of America N.T. & S.A.
71	Bank Of Tokyo Ltd.
72	Bankindosuez.
73	BanqueNationale de Paris.
74	Barclays bank.
75	City Bank N.A.
76	Hongkong& Shanghai banking Corporation.
77	Mitsui Taiyokbe Bank Ltd.
78	Standard Chartered Bank.
79	Cho Hung Bank.

SECTION 14
APPENDIX

FORM OF TENDER

To,
The Municipal Commissioner for Greater Mumbai

Sir,

I/ We have read and examined the following documents relating to the
.....
.....Notice
inviting tender.

- i. Directions to tenderers (General and special)
- ii. General condition of contract for Civil Works of the Brihanmumbai Municipal Corporation as amended up to date.
- iii. Relevant drawings.
- iv. Specifications.
- v. Special directions
- vi. Annexure A to B.
- vii. Bill of Quantities and Rates.

1A. I/We _____ (full name in capital letters, starting with surname), the Proprietor/ Managing Partner/ Managing Director/ Holder of the Business, for the establishment / firm / registered company, named herein below, do hereby offer to
.....
.....

Referred to in the specifications and schedule to the accompanying form of contract of the rates entered in the schedule of rates sent herewith and signed by me/ us” (strike out the portions which are not applicable).

1B. I/We do hereby state and declare that I/We, whose names are given herein below in details with the addresses, have not filled in this tender under any other name or under the name of any other establishment /firm or otherwise, nor are we in any way related or concerned with the establishment /firm or any other person, who have filled in the tender for the aforesaid work.”

2. I/We hereby tender for the execution of the works referred to in the aforesaid documents, upon the terms and conditions, contained or referred to therein and in accordance with the specifications designs, drawings and other relevant details in all respects.

* At the rates entered in the aforesaid Bill of Quantities and Rates.

3. According to your requirements for payment of Earnest Money amounting to Rs. _____ /-(Rs. _____

_____)I/We have deposited the amount through online payment gateways with the C.E. of the Corporation not to bear interest

4. I/We hereby request you not to enter into a contract with any other person/s for the execution of the works until notice of non/acceptance of this tender has first been communicated to me/us, and in consideration of yours agreeing to refrain from so doing I/we agree not to withdraw the offer constituted by this tender before the date of communication to me/us of such notice of non/acceptance, which date shall be not later than ten days from the date of the decision of the Standing Committee or Education Committee of the Corporation, as maybe required under the Mumbai Municipal Corporation Act, not to accept this tender.(Subject to condition 5 below).

5. I/We also agree to keep this tender open for acceptance for a period of 180 days from the date fixed for opening the same and not to make any modifications in its terms and conditions which are not acceptable to the Corporation.

6. I/We agree that the Corporation shall, without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely, if.

a. I/We fail to keep the tender open as aforesaid.

b. I/We fail to execute the formal contract or make the contract deposit when called upon to do so.

c. I/we do not commence the work on or before the date specified by the Engineer in his work order.

7. I/We hereby further agree to pay all the charges of whatsoever nature in connection with the preparation, stamping and execution of the said contract.

8. I/We further agree that, I/we shall register ourselves as 'Employer' with the Bombay Iron and Steel Labour Board' and fulfil all the obligatory provisions of Maharashtra Mathadi, Hamal and other Manual workers (Regulation of Employment and Welfare) Act 1969 and the Bombay Iron and Steel unprotected workers Scheme 1970.

9. "I/We..... have failed in the accompanying tender with full knowledge of liabilities and, therefore, we will not raise any objection or dispute in any manner relating to any action, including forfeiture of deposit and blacklisting, for giving any

information, which is found to be incorrect and against the instructions and directions given in this tender.

10. "I/We further agree and undertake that in the event it is revealed subsequently after the allotment of work/contract to me/us, that any information given by me/us in this tender is false or incorrect, I/We shall compensate the Brihanmumbai Municipal Corporation for any such losses or inconvenience caused to the Corporation in any manner and will not resist any claim for such compensation on any ground whatsoever. I/we agree and undertake that I/we shall not claim in such case any amount by way of damages or compensation for cancellation of the contract given to me/us or any work assigned to me/us or is withdrawn by the Corporation,"

Address

Yours faithfully,

.....
.....
.....

Digital Signature of the Tenderer or the Firm

1.....
2.....
3.....
4.....
5.....

Full Name and private residential address of all the partners constituting the Firm

1. A/c No.
2. Name of Bank
3. Name of Branch
4.
5. Vender No.

BRIHANMUMBAI MUNICIPAL CORPORATION

Appendix 'B'

Information regarding Status of Bidder

(1) (a) Whether it is a proprietor concern -----

(b) If so, name of the owner -----

(2) If it is a partnership concern, please -----
furnish name of each partner and copy -----
of registration certificate -----

(3) In case of company, please furnish the -----
documentary proof to show that the -----
company is registered. -----

(4) In case of Joint Venture, please furnish -----
the name of each firm and Joint -----
Venture forms. -----

**Signature of authorized
Person of concern/company**

**Name of concern/company
and seal**

AGREEMENT FORM

Tender / Quotation dated 20...
Standing Committee/Education Committee Resolution No.
CONTRACT FOR THE WORKS

.....
.....
This agreement made this day of Two
thousandBetween

.....
.....
inhabitants of Mumbai, carrying on business at..... in

Bombay under the style and name of Messrs
..... (Hereinafter called “the contractor of
the one part and Shri.

..... the DMC(E) (hereinafter called “the
commissioner” in which expression are included unless the inclusion is inconsistent with the
context, or meaning thereof, his successor or successors for the time being holding the office of
DMC(E) of the second part and the Brihanmumbai Municipal Corporation (hereinafter called “the
Corporation”) of the third part, WHEREAS the contractor has tendered for the construction,
completion and maintenance of the works described above and his tender has been accepted by the
Commissioner (with the approval of the Standing Committee/Education Committee of the
Corporation NOW THIS

THIS AGREEMENT WITNESSETH as follows:-

- 1) In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract for works hereinafter referred to:-
- 2) The following documents shall be deemed to form and be read and constructed as a part of this agreement viz.
 - a) The letter of Acceptance
 - b) The Bid:
 - c) Addendum to Bid; if any
 - d) Tender Document
 - e) The Bill of Quantities:
 - f) The Specification:
 - g) Detailed Engineering Drawings
 - h) Standard General Conditions of Contracts (GCC)
 - i) All correspondence documents between bidder and BMC
- 3) In consideration of the payments to be made by the Commissioner to the contractor as hereinafter mentioned the contractor hereby covenants with the Commissioner to construct, complete and maintain the works in conformity in all respects with the provision of the contract.

4) The Commissioner hereby covenants to pay to the Contractor in consideration of the construction, completion and maintenance of the works the contract sum, at times and in the manner prescribed by the contract.

IN WITNESS WHERE OF the parties hereto have caused their respective common seals to be herein to affixed (or have hereunto set their respective hands and seals) the day and year above written.

Signed, Sealed and delivered by the contractors

.....
.....
.....

In the presence of

Trading under the name and style of

.....
.....

Full Name & Address

Contractors

Signed by the DMC (E) in the presence of Dy.Ch.E(SO) PMS City Ch.E.(SO)

.....
.....

DMC (E)

The Common seal of the Brihanmumbai Municipal Corporation was hereunto affixed on the 20 in the presence of two members of the Standing Committee.

- 1. 1.
- 2. 2.

And in the presence of the Municipal Secretary

Municipal Secretary

ANNEXURE " A "(Being Item rate Tender this is not applicable)

Name of work:

.....

The Engineer for this work: Chief Engineer (Sewerage Operation)
 Dy.Ch.Eng. (Sewerage Operation)
 Ex.Eng. (Main Sewer)

1. Estimated cost of Tender: Not applicable being Item Rate Tender.

Sr. No.	Description of work	Total Amount Rs.
1.	Civil Work	-----
2.	Electrical Work	-----
3.	Total Amount	-----

2. Earnest Money (1% of the Estimated cost) :

3. Time Period :

Sr. No.	Description of work	Total Amount Rs.
1.	Contract as a whole Period completion	4 months
2.	Part or Groups of items	Not Applicable
	i)	i)
	ii)	ii)
	iii)	iii)

4. Percentage to be charged as supervision charges for the work got executed through othermeanspercent.

The ‘‘Actual cost of the work’’ shall mean in the case of percentage rate contracts the actual cost of the work executed at the rates as mentioned in the Contract Schedule adjusted by the Contractor's percentage rate and cost of extra and excess, but excluding the cost on account of Water Charges and Sewerage Charges if any, payable by the contractor and also excluding cost on account of price variation claims as provided in price variation clause as amended up to date.

5. In case of item rate contracts the actual cost calculated for the work executed at the rates mentioned in the contract schedule for different items including cost of excess and extra items of the work excluding the cost of water charges and sewerage charges if any, payable by the

contractor and excluding cost on account of price variation claims as provided in extra excess conditions as amended up to date.

6. In case of lump sum contract the cost of the work actually carried out as per break up and programme of the work and the schedule of payment included in the contract including cost of any excess and/or extra items, of the work, excluding the cost on account of water charges and sewerage charges and also excluding cost on account of price variation claims as provided in extra excess conditions as amended up to date.

Annexure- B

PRE-CONTRACT INTEGRITY PACT

(On Rs. 500/- Stamp Paper)

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-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commits 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 BMC, 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 BMC or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the Contract or any other Contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the Contract or 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 he has made, is committed to or intends to make to officials of the BMC 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 Bidder shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BMC as part of the business relationship, regarding plans, technical proposals and business details, 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 Bidder 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 herein after respectively assigned to them:

- i. “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 ;
- ii. “coercive practice” means impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any persons participation or action in the Bidding Process;
- iii. “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
- iv. “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- C

(On Rs. 500/- Stamp Paper)

DECLARATION CUM INDEMNITY BOND

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

1. I declare that I have submitted certificates as required to Executive engineer (Monitoring) 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/Proprietors of _____ has not been charged with any prohibitory and /or penal action 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. forming 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, BMC 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

Bankers Guarantee in lieu of Contract deposit/Performance guarantee

THIS INDENTURE made this _____ day of _____ BETWEEN THE _____ BANK incorporated under the English/Indian Companies Acts and carrying on business in Mumbai (hereinafter referred to as 'the bank' which expression shall be deemed to include its successors and assigns) of the first part _____ inhabitants carrying on business at _____ in Mumbai under the style and name of Messer's _____ (hereinafter referred to as 'the consultant') of the second part Shri. _____ THE MUNICIPAL COMMISSIONER FOR GREATER MUMBAI (hereinafter referred to as 'the commissioner' which expression shall be deemed, also to include his successor or successors for the time being in the said office of Municipal Commissioner) of the third part and THE BRIHANMUMBAI MUNICIPAL CORPORATION (hereinafter referred to as 'the Corporation') of the fourth part WHEREAS the consultants have submitted to the Commissioner tender for the execution of the work of “ _____

_____” and the terms of such tender /contract require that the consultants shall deposit with the Commissioner as/contract deposit/ earnest money and /or the security a sum of Rs. _____ (Rupees _____)

AND WHEREAS if and when any such tender is accepted by the Commissioner, the contract to be entered into in furtherance thereof by the consultants will provide that such deposit shall remain with and be appropriated by the Commissioner towards the Security deposit to be taken under the contract and be redeemable by the consultants, if they shall duly and faithfully carry out the terms and provisions of such contract and shall duly satisfy all claims properly chargeable against them there under AND WHEREAS the consultants are constituents of the Bank and in order to facilitate the keeping of the accounts of the consultants, the Bank with the consent and concurrence of the consultants has requested the Commissioner to accept the undertaking of the Bank hereinafter contained, in place of the contractors depositing with the Commissioner the said sum as earnest money and /or security as aforesaid AND WHEREAS accordingly the Commissioner has agreed to accept such undertaking NOW THIS AGREEMENT WITNESSES that in consideration of the premises, the Bank at the request of the consultants (hereby testified) UNDERTAKES WITH the commissioner to pay to the commissioner upon demand in writing , whenever required by him , from time to time , so to do , a sum not exceeding in

the whole Rs. _____ (Rupees _____) under the terms of the said tender and /or the contract .The B.G. is valid up to _____”Notwithstanding anything what has been stated above, our liability under the above guarantee is restricted to Rs. _____ only and guarantee shall remain in force up to _____ unless the demand or claim under this guarantee is made on us in writing on or before _____ all your right under the above guarantee shall be forfeited and we shall be released from all liabilities under the guarantee thereafter”

IN WITNESS WHEREOF

WITNESS(1) _____

Name and _____

address _____

WITNESS(2) _____

Name and _____ the duly constituted Attorney Manager

address _____

the Bank and the said Messer’s _____

_____ (Name of the Bank)

WITNESS(1) _____

Name and _____

address _____

WITNESS(2) _____

Name and _____

For Messer’s _____

address _____

have here into set their respective hands the day and year first above written.

The amount shall be inserted by the Guarantor, representing the Contract Deposit in Indian Rupees.

Annexure-D

Rate Analysis

Item Description:

Sr. No.	Description of rate analysis parameters	System	Quantity	Rate	Amount
1	Basic Material (Rate should be inclusive of all taxes)				
2	Machinery Hire Charges				
3	Labour Type		(labour components)		
4	Total of all components				
5	Overhead & Profit 15% on 4				
6	Total Rate (4+5)				
7	Per System rate				

Sign & Seal of the Tenderer

UNDERTAKING CUM INDEMNITY BOND

On stamp paper of Rs. 500/-

(As per circular u/no. Ex Engr. /M&R/310/Civil Dt.19.06.2014 , to be uploaded in folder ‘A’)

We, (1) Mr. _____, (2) Mr. _____ and
(3) Mr. _____ aged (1) ____ Yrs. (2) ____ Yrs. , and (3) ____ Yrs.
respectively; Proprietor / Partners / Directors / Power of Attorney holder of the firm
_____ having its office at _____
_____ hereby given an UNDERTAKING CUM INDEMNITY BOND as under :

AND WHEREAS We are registered contractor/s with the Brihanmumbai Municipal Corporation
and / or (Name of other authority) having Registration No. _____ valid upto

AND WHEREAS the Brihanmumbai Municipal Corporation had published the tender notice for
the work of _____.

AND WHEREAS I/We want to participate in the said Tender procedure, I/We hereby give an
undertaking cum Indemnity Bond as herein after appearing: -

I/ We hereby agree and undertake that my/our Firm is not under any penal action such as
Demolition, Suspension, Blacklisting, De-registration, etc. by any Government, Semi
Government and Government Undertaking etc.

I/We hereby further undertake to communicate if my/our Firm comes under any penal action such
as Demolition, Suspension, Blacklisting, De-registration, etc. by any Government, Semi
Government and Government Undertaking etc.

I/We hereby further agree and undertake that at any stage of tendering procedure, if the said
information is found incorrect, it should be lawful for the BMC to forthwith debar me /us from the
tendering procedure and initiate appropriate penal action.

The undertaking cum Indemnity Bond is binding upon us/our heirs, executors, administrators and
assigns and / or successor and assigns.

Place: _____ **Proprietor / Partners / Directors / POA**

Dated:(Seal of Firm / Co.)

Identified by Me,

BEFORE ME

UNDERTAKING FOR BEST PRICE

(As per circular u/no. DMC / CPD / OD / 15 Dtd. 06.05.2013, to be uploaded in folder ‘A’)
(On stamp paper of Rs. 500/- duly notarized by notary with red seal and registration number)

Tender / Bid No. _____

To,

The Municipal Commissioner
For the Brihanmumbai Municipal Corporation

Sir ,

“I / We(Full Name in capital letters starting with surname), the Proprietor / Managing Partner / Managing Director / Holder of the Business / Manufacturer / Authorized Dealer, for the establishment / firm / registered company , named herein below , do hereby, state and declare that I/We ----- whose names are given herein below in details with the addresses have not filled in this tender under any other name or under the name of any other establishment / firm or otherwise , nor are We in any way related or concerned with any establishment / firm or any other person , who have filled in the tender for the aforesaid work.”

“ I / We do hereby further undertake that, we have offered the best prices for the subject supply / work as per the present market rates. Further, we do here by undertake and commit that we have not offered / supplied the subject product / similar product / system or sub system in the past one year in the Maharashtra State for quantity variation up to - 50% or + 10 % at a price lower than that offered in the present bid to any other outside agencies including Govt. / Semi Govt. agencies and within the BMC also. Further, we have filled in the accompanying tender with full knowledge of the above liabilities and therefore we will not raise any objection or dispute in any manner relating to any action, including forfeiture of deposit and black listing, for giving any information which is found to be incorrect and against the instructions and directions given in this behalf in this tender.

I / We further agree and undertake that in the event it is revealed subsequently after the allotment of work / contract to me / us , that any information given by me / us in this tender is false or incorrect , I / We shall compensate the Brihanmumbai Municipal Corporation for any such losses or inconvenience caused to the Corporation in any manner and will not resist any claim for such compensation on any ground whatsoever , I / We agree and undertake that I / We shall not claim in such case any amount , by way of damages or compensation for cancellation of the contract given to me / us or any work assigned to me / us or is withdrawn by the Corporation.”

However, in case of price difference, if it is a result of differential tax structures, different dollar value of Rupee, differential logistic of transport etc. Considering this aspect, before invoking the penalty, black-listing, I/We will be given a reasonable opportunity of being heard by representing our case as to why such price variation / differential has been arisen.

In case if the explanation submitted by me / us is unsatisfactory then action including forfeiture of despote and black-listing may be taken against me/us.

Tenderers full Signature with full name & address with rubber stamp

UNDERTAKING FOR BLACKLISTING

(To be submitted on Stamp Paper of Rs.500/-)

Sub.: _____

e-Tender No. _____

To,
The Municipal Commissioner,
Brihanmumbai Municipal Corporation.

Sir,

I/ We _____ (bidder) hereby undertake that there is no order(s) of blacklisting is in forced against us or our manufacturer / associates / parents / subsidiary / groupcompany / Joint Venture partners by any Government organization in India on the day of publishing of this tender.

I/We hereby further agree and undertake that at any stage of tendering procedure, if the said information is found incorrect, it should be lawful for the BMC to forthwith debar me / us from the tendering procedure and initiate appropriate penal action.

Authorized Signatory

Annexure-A
Irrevocable Undertaking

(on Rs.500 Stamp Paper)

I Shri/Smt. aged, years Indian
Inhabitant. Proprietor/ Partner/ Director of M/s.
..... resident at
..... Do hereby give
Irrevocable undertaking as under;

- 1) I say and undertake that as specified in section 171 of CGST Act, 2017, any reduction in rate of tax on supply of goods or services or the benefit of input tax credit shall be mandatorily passed on to BMC by way of commensurate reduction in prices.
- 2) I further say and undertake that I understand that in case the same is not passed on and is discovered at any later stage, BMC shall be at liberty to initiate legal action against me for its recovery including, but not limited to, an appeal to the Screening Committee of the GST Counsel.
- 3) I say that above said irrevocable undertaking is binding upon me / my partners/ company/ other Directors of the company and also upon my / our legal heirs, assignee, Executor, administrator etc.
- 4) If I fail to compliance with the provisions of the GST Act, I Shall be liable for penalty/ punishment or both as per the provisions of GST Act.

Whatever has been stated here in above is true & correct to my/ our own knowledge and belief.

Solemnly affirmed

DEPONENT

This day of

BEFORE ME

Interpreted Explained and Identified by me.

PROFORMA FOR MANUFACTURER

(To be submitted on stamp paper of Rs. 500/- with Packet 'B')

To,
The Commissioner,
Brihanmumbai Municipal Corporation,
MUMBAI-400 001.

Sub.: Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department.

Ref.: e-Tender No. _____

Dear Sir,

We, _____ (Name of the manufacturing concern) are an established manufacturers of ' _____ ', having factory at _____ (Factory Address) do hereby undertake that we have studied the detail tender document, scope of work as well as technical specifications. We hereby ensure supply of quantity and quality as per the contract for the goods offered. We also ensure uninterrupted supply of spares, material, service, etc. for the subject machines till the completion of entire contract period.

Also, we hereby undertake that "failing to comply the above we shall be liable to penal action".

For and on behalf of M/s. _____

(Name of manufacturer)

Note:- 1) This Proforma is meant for manufacturers who are participating in the tendering themselves. This letter shall be submitted with the tender in original on the letterhead of the manufacturing concern and signed by a person competent to sign the same.

**PROFORMA FOR AUTHORIZED DEALER / AUTHORIZED DISTRIBUTOR FROM
THE MANUFACTURER**

(To be submitted on stamp paper of Rs. 500/- with Packet 'B')

To,
The Commissioner,
Brihanmumbai Municipal Corporation,
MUMBAI-400 001.

Sub.: Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department.

Ref.: e-Tender No. _____

Dear Sir,

We, _____ (Name of the manufacturing concern) are an established manufacturers of ' _____ ', having factory at _____ (Factory Address) do hereby authorize M/s. _____ (Name and address of the dealer) to represent us to tender and conclude the contract for the above goods manufactured by us with you against invitation of e-tender No. _____ due on _____.

We have studied the detail tender documents, scope of work as well as technical specifications.

We hereby ensure supply of quantity and quality as per the contract for the goods offered. We also ensure uninterrupted supply of spares, material, service, etc. for the subject machines till the completion of entire contract period.

Also, we hereby undertake that "failing to comply the above we shall be liable to penal action".

Yours faithfully,

For and on behalf of M/s. _____

(Name of manufacturer)

Place:

Date:

- Note:**
- 1) This letter of authority shall be in original on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturers. (Attach copy of Power of Attorney).
 - 2) If the machine being offered is manufactured in the collaboration this Letter of Authorization shall be signed by all the collaborating partners.

Memorandum of Understanding (MOU) between Manufacturer & Authorized Dealer / Distributor (On stamp paper of Rs. 500/- duly notarized)

Sub.: Supply, Operation & Comprehensive Maintenance (for 1 year) of Sewer Cleaning Robo Vehicle for Sewerage Operation Department.

Ref.: Tender-ID: 2024_MCGM_1124479.

Deed for the MEMORANDUM OF UNDERSTANDING is made and entered into at _____ on _____ 2024

Between

M/s. _____, **Manufacturer** of having registered office at hereinafter called as the “**MANUFACTURER**”.

AND

M/s. _____ **AUTHORIZED DEALER / DISTRIBUTOR** of above manufacturer having their registered office at herein after called as the “**AUTHORIZED DEALER / DISTRIBUTOR**”

It is hereby agreed by both manufacturer and their authorized dealer that:

1. Above manufacturer through its authorized dealer / distributor is interested in participation in above subject tenders on following individual roles and responsibilities.
 - a. Minimum roles and responsibilities of the ‘manufacturer’ regarding supply and Operation and comprehensive maintenance in the said bids are–
 1. Submission of GA diagram, along with details of all components.
 2. Providing 3D layout diagram of the ‘Sewer Cleaning Robo Vehicle’.
 3. Submission of all catalogues.
 4. Submission of Load / Power distribution calculations.
 5. Supply of machine as per tender technical specifications.
 6. Supply of spare parts & after sales service support.
 7. _____ (any others if any).
 - b. Minimum roles and responsibility of ‘authorized dealer / distributor’ regarding supply and Operation and comprehensive maintenance in the said bids are–
 1. Submission of EMD/ SD as per tender terms and conditions
 2. Investments for machine procurement/ all financial costs
 3. Successful supply of vehicles/ commissioning/ RTO registration etc. as per approved by along with modification suggested by BMC.

4. On-site Demonstration / Inspection of the 'Sewer Cleaning Robo Vehicle'.
 5. Successful execution of Operation and Maintenance contract as per tender condition.
 6. Submission of invoices/ payment follow-up etc.
 7. _____ (any others if any).
- b. In case of non-performance of their authorized dealer during contract period at any stage, the Manufacturer shall execute remaining part of the contract till its completion directly on his own or through their authorized dealer with prior approval from BMC.
- c. In case Manufacturer / authorized dealer fails to execute their role and responsibility as mentioned above or anywhere in the tender, BMC have right to blacklist the manufacturer/ authorized dealer for non-performance and impose the penalty as per tender conditions.

Authorized Signatory & seal

On Behalf of the Manufacturer

Authorized Signatory & seal

On Behalf of the For Authorized Dealer

Witness:

- 1)
- 2)
- 3)

PROFORMAS

PROFORMA- I

The list of similar works as stated in para 'A' of Post qualification during last Seven years-

PROFORMA- I					
Sr. No.	Name of the Project	Name of the employer	Stipulated date of completion	Actual date of completion	Actual Cost of work done
1	2	3	4	5	6

NOTE:

- a. Scanned Attested copies of completion/performance certificates from the Engineer-in-Charge for each work should be annexed in the support of information furnished in the above proforma.
- b. Works shall be grouped financial year-wise.

PROFORMA- II

Yearly turnover of Civil Engineering Construction Works during the last seven years.

PROFORMA- II					
Sr. No.	Financial year	Annual Turnover of Civil Engineering Works	Updated value to current year	Average of last 5years	Page No.
1					
2					
3					
Total					

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

PROFORMA- III (Not Applicable)

At least similar work, as stated in para 'A' of Post Qualification,

PROFORMA- III							
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	Actual cost of work done	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 for each work should be annexed in support of information furnished in the above proforma.

PERSONNEL

PROFORMA- IV (Not Applicable)

PROFORMA- IV					
Sr. No.	Post	Name (Prime Candidate / Alternate)	Qualification	Work Experience	
			No. of Years	No. of Years	Name of the Project
1	Project Manager				
2	Quality Control Engineer				
3	Site Engineer				
4	Site Supervisor				

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

MACHINERY: (for special work only)

PROFORMA- V/A (Not Applicable)

PROFORMA- V/A			
Sr. No.	Equipment	Number	Owned/Leased/Assured access
1	2	3	4

PROFORMA- V/B (Not Applicable)

PROFORMA- V/B			
Sr. No.	Equipment	Number	Owned
1	2	3	4

Note: The tenderer(s) shall furnish/upload the requisite Scanned Attested documents of ownership/leased of machineries. The undertaking from the suppliers will not be accepted.

PROFORMA - VI /A (Not Applicable)

Details of Existing Commitments and ongoing works -

PROFORMA - VI / A							
Description of Work	Place	Contract No.& Date	Name &Addresses of employer	Value of Contract in Rs.	Scheduled Date of completion	Value of work remaining to be completed	Anticipated Date of completion
1	2	3	4	5	6	7	8

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

PROFORMA - VI /B (Not Applicable)

Details of works for which bids are already uploaded -

PROFORMA - VI / B						
Description of Work	Place	Name &Ad-dresses of employee	Value of Contract in Rs.	Time Period	Date on which decision is expected	Remarks
1	2	3	4	5	6	7

Note: Scanned Attested copies of certificates from the Engineer-in-charge for each work shall be annexed.