



(समाचार पत्रों में प्रकाशन हेतु)

## बीकानेर नगर निगम

नगर निगम मार्ग, बीकानेर (राजस्थान) फ़ैक्स :- 0151-2226906, फ़ोन :- 0151-2226902, 0151-2226905  
E-Mail Address :- nagamigambikaner@gmail.com, Web Site :- www.bikanermc.org

क्रमांक/निर्माण/2016-17/21497

दिनांक :- 09.11.2017

### निविदा-सूचना सं० 21/2017-18

नगर निगम बीकानेर की ओर से निम्नलिखित कार्यों के लिये नगर निगमों, नगर विकास न्यास, सार्वजनिक निर्माण विभाग, आवासन मण्डल व केन्द्र सरकार व राज्य सरकार के अभियांत्रिकी विभागों द्वारा मान्यता प्राप्त एवं अनुभवी संवेदकों से निर्धारित प्रपत्र में ई-प्रोक्यूरमेंट प्रक्रिया से ऑन लाईन निविदाएं (Single Stage Two Envelopes) आमंत्रित की जाती है। निविदा से सम्बन्धित विवरण वेब साईट [www.bikanermc.org](http://www.bikanermc.org) Web site [www.SPPP.raj.nic.in](http://www.SPPP.raj.nic.in) से व <http://eproc.rajasthan.gov.in> पर देखा जा सकता है।

निविदा कार्य	1	Rate Contract for Cleaning of Sewer Lines and Manholes by Super Sucker Jetting cum Suction Machine in Bikaner. <b>96.54 Lacs</b>
निविदा की कुल लागत	:	रुपये 96.54 लाख
धरोहर राशि (2 प्रतिशत)	:	193080/-
ऑनलाईन निविदा फार्म मिलने की तिथि	:	27.11.2017 9.30 बजे से 13.12.2017 18.00 बजे तक
ऑनलाईन निविदा फार्म जमा कराने की तारीख	:	27.11.2017 9.30 बजे से 13.12.2017 18.00 बजे तक
ऑनलाईन तकनीकी बिड खोलने की तिथि	:	15.12.2017 को 15.00 बजे
निविदा शुल्क, प्रोसेसिंग फीस एवं धरोहर राशि जमा कराने की तारीख	:	14.12.2017 को अपराह्न 9.30 बजे से 16.00 बजे तक नगर निगम बीकानेर के कार्यालय के निर्माण अनुभाग में जमा करवानी होगी। यह शर्त आरटीजीएस पर लागू नहीं होगी।
Online Opening of Financial Bid of Qualified Bidders	:	Will be informed later to qualified bidders

इच्छुक संवेदको को अपने डिजिटल हस्ताक्षर के माध्यम से वेब साईट <http://eproc.rajasthan.gov.in> पर रजिस्टर्ड होना आवश्यक है।

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आयुक्त  
नगर निगम, बीकानेर

क्रमांक/निर्माण/2016-17/21497

दिनांक :- 09.11.2017

प्रतिलिपि :-

1. श्रीमान् निदेशक, जनसम्पर्क एवं प्रकाशन विभाग, राजस्थान संवाद जयपुर को प्रेषित कर लेख है कि उपरोक्त निविदा का प्रकाशन कम से कम स्पेस में राज्य सरकार की प्रकाशन नीति के अनुरूप नियमानुसार करवाने का श्रम करावें।

आयुक्त  
नगर निगम, बीकानेर

निविदा-सूचना सं0 21/2017-18

(टाईम फारमेट :- 24 घण्टे)

निविदा कार्य	1	Rate Contract for Cleaning of Sewer Lines and Manholes by Super Sucker Jetting cum Suction Machine in Bikaner. <b>96.54 Lacs</b>
धरोहर राशि	:	अनुमानित लागत का 1/2 प्रतिशत अथवा 2 प्रतिशत
धरोहर राशि (2 प्रतिशत)	:	193080/-
ऑनलाईन निविदा फार्म मिलने की तिथि	:	27.11.2017 9.30 बजे से 13.12.2017 18.00 बजे तक
ऑनलाईन निविदा फार्म जमा कराने की तारीख	:	27.11.2017 9.30 बजे से 13.12.2017 18.00 बजे तक
ऑनलाईन तकनीकी बिड खोलने की तिथि	:	15.12.2017 को 15.00 बजे
निविदा शुल्क, प्रोसेसिंग फीस एवं धरोहर राशि जमा कराने की तारीख	:	14.12.2017 को अपरान्ह 9.30 बजे से 16.00 बजे तक नगर निगम बीकानेर के कार्यालय के निर्माण अनुभाग में जमा करवानी होगी। यह शर्त आरटीजीएस पर लागू नहीं होगी।
Online Opening of Financial Bid of Qualified Bidders	:	Will be informed later to qualified bidders

आयुक्त  
नगर निगम, बीकानेर



(वेबसाईट पर अपलोड हेतु)

## बीकानेर नगर निगम

नगर निगम मार्ग, बीकानेर (राजस्थान) फ़ैक्स :- 0151-2226906, फ़ोन :- 0151-2226902, 0151-2226905  
E-Mail Address :- nagamigambikaner@gmail.com, Web Site :- www.bikanermc.org

क्रमांक / निर्माण / 2016-17 /

दिनांक.....

### निविदा-सूचना सं० 21 / 2017-18

नगर निगम बीकानेर की ओर से निम्नलिखित कार्यों के लिये नगर निगमों, नगर विकास न्यास, सार्वजनिक निर्माण विभाग, आवासन मण्डल व केन्द्र सरकार व राज्य सरकार के अभियांत्रिकी विभागों द्वारा मान्यता प्राप्त एवं अनुभवी संवेदकों से निर्धारित प्रपत्र में ई-प्रोक्यूमेंट प्रक्रिया से ऑन लाईन निविदाएं (Single Stage Two Envelopes) आमंत्रित की जाती है। निविदा से सम्बन्धित विवरण वेब साईट [www.bikanermc.org](http://www.bikanermc.org) Web site [www.SPPP.raj.nic.in](http://www.SPPP.raj.nic.in) से व <http://eproc.rajasthan.gov.in> पर देखा जा सकता है।

जिला	कार्य/पैकेज का नाम	अनुमानित लागत (लाखों में)	कार्य पूर्ण करने की अवधि	निविदा प्रपत्र विक्रय/प्राप्ति कार्यालय
बीकानेर	Rate Contract for Cleaning of Sewer Lines and Manholes by Super Sucker Jetting cum Suction Machine in Bikaner.	96.54	1 वर्ष	अधिशायी अभियंता निर्माण अनुभाग नगर निगम, बीकानेर

निविदा प्रपत्रों को वेब साईट <http://eproc.rajasthan.gov.in> से डाउनलोड किया जा सकता है। इन निविदाओं में भाग लेने वाले संवेदक निविदा को इलेक्ट्रॉनिक फारमेट में वेबसाईट <http://eproc.rajasthan.gov.in> पर अपलोड कराएं।

1. निविदा प्रपत्रों हेतु डाउनलोड की अवधि 27.11.2017 ,9.30 बजे से 13.12.2017 बजे तक होगी।
2. (अ) निविदा प्रपत्र फॉरमेट में वेबसाईट <http://eproc.rajasthan.gov.in> पर 27.11.2017 9.30 बजे से 13.12.2017 18.00 बजे तक जमा करवाये जा सकते हैं एवं प्राप्त निविदाएं, (टेक्निकल बिड) इलैक्ट्रॉनिक फॉरमेट में वेबसाईट <http://eproc.rajasthan.gov.in> पर अधिशाषी अभियंता, नगर निगम, बीकानेर निर्माण अनुभाग में 15.12.2017 को 15.00 बजे खोली जावेगी।
3. यदि किसी कारणवश उस दिन अवकाश रहता है तो अगले दिन उसी समय व उसी स्थान पर निविदायें खोली जायेगी।  
(अ) निविदा प्रक्रिया ऑन लाईन होगी।  
(ब) इलैक्ट्रॉनिक निविदा प्रक्रिया में प्रीबीड मीटिंग का प्रावधान नहीं है।
4. अधिशाषी अभियंता, नगर निगम, बीकानेर निर्माण अनुभाग कार्यालय में संवेदक द्वारा 27.11.2017 9.30 बजे से 13.12.2017 18.00 बजे तक किसी भी कार्य दिवस में निविदा प्रपत्र को देखा जा सकता है। निविदा प्रपत्रों में निविदाकर्ता के लिये योग्यता सूचना तथा निविदाकर्ता की पात्रता, प्लान, स्पेसिफिकेशन, ड्राईंग विभिन्न कार्यों की मात्रा एवं दरों का विवरण, नियम, शर्तें एवं अन्य विवरण वर्णित है।
5. निविदादाता द्वारा निविदा शुल्क/धरोहर राशि डिमांड ड्राफ्ट/बैंकर चैक अथवा निविदा प्रपत्रों में वर्णित किसी एक प्रकार के रूप में संबंधित कार्यालय में 14.12.2017 9.30 बजे से 16.00 बजे तक जमा कराना आवश्यक है।
6. निर्धारित दिनांक को कोस्ट ऑफ टेंडर फार्म, प्रोसेसिंग फीस एवं अरनेस्ट मनी की निर्धारित राशि आरटीजीएस के माध्यम से यूनियन बैंक ऑफ इंडिया, नगर निगम शाखा बीकानेर के खाता नं0 531101010032195, IFSC कोड UBIN05531115 में भी जमा करवायी जा सकती है। आरटीजीएस की प्राप्ति रशीद को [www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in) पर अपलोड करना अनिवार्य होगा।
7. निविदा खोलने की दिनांक से 120 दिवसों तक निविदा स्वीकृति हेतु मान्य रहेगी। यदि निविदाकर्ता उस अवधि में अपनी निविदा अथवा शर्तों में किसी प्रकार का संशोधन करता है अथवा अपनी निविदा वापस ले लेता है तो उसकी धरोहर राशि जब्त कर ली जावेगी।
8. किसी भी निविदा को स्वीकार करने एवं बिना कारण बताये निरस्त करने के समस्त अधिकार सक्षम अधिकारी के पास सुरक्षित है आरपीडब्ल्यू ए-100 की समस्त शर्तें मान्य होगी।
9. निविदा शुल्क निम्नानुसार निर्धारित है :- 5000/-
10. प्रासेसिंग फीस निम्नानुसार निर्धारित है :- 1000/-
11. Rajasthan Transparency in Public Procurement Act-2012 & Rules 2013 निविदा में लागू होंगे।

## 12. ई- टेन्डरिंग के लिये निविदादाता हेतु निर्देश

अ- इन निविदाओं में इच्छुक निविदादाता निविदा प्रपत्रों का इन्टरनेट साईट <http://eproc.rajasthan.gov.in> से डाउनलोड कर सकते हैं।

ब- निविदाओं में भाग लेने वाले निविदादाताओं को इन्टरनेट साईट <http://eproc.rajasthan.gov.in> पर रजिस्टर करवाना होगा। ऑन लाईन निविदा में भाग लेने के लिये डिजिटल सर्टिफिकेट इन्फोरमेशन टेक्नोलॉजी एक्ट 2000 के तहत प्राप्त करना होगा जो इलेक्ट्रॉनिक निविदा में साईन करने हेतु काम आयेगा। निविदादाता उपरोक्त डिजिटल सर्टिफिकेट सी सी ए द्वारा स्वीकृत एजेन्सी से प्राप्त कर सकते हैं। जिन निविदादाताओं के पास पूर्व में वैध डिजिटल सर्टिफिकेट है, नया डिजिटल सर्टिफिकेट लेने की आवश्यकता नहीं है।

स- निविदादाताओं को निविदा प्रपत्र इलेक्ट्रॉनिक फॉर्मेट में उपरोक्त वेबसाईट पर डिजिटल साईन के साथ प्रस्तुत करना होगा। जिसके प्रस्ताव डिजिटल साईन के साथ नहीं होंगे, उनके प्रस्ताव स्वीकार नहीं किये जायेंगे। कोई भी प्रस्ताव अकेले भौतिक फार्म में स्वीकार्य नहीं होगा।

द- ऑन लाईन निविदाएं निर्धारित दिनांक एवं समय पर उपरोक्त क्रम संख्या - 2 के अनुसार खोली जायेगी।

य - इलेक्ट्रॉनिक निविदा प्रपत्रों को जमा कराने से पूर्व निविदादाता यह सुनिश्चित कर लेवे कि निविदा प्रपत्रों से संबंधित सभी आवश्यक दस्तावेजों की स्कैन कॉपी निविदा प्रपत्रों के साथ अटैच कर दी गयी है।

र- कोई भी टेंडर इलेक्ट्रॉनिक जमा कराने में किसी कारण लट हो जाता है तो उसका जिम्मेदार विभाग नहीं होगा।

ल- टेंडर के प्रपत्रों में आवश्यक सभी सूचियों को सम्पूर्ण रूप से भरकर ऑन लाईन दर्ज करें।

आयुक्त  
नगर निगम, बीकानेर

**Name of Work: Rate contract for cleaning of sewer lines and manholes by super sucker machine in Bikaner Municipal Corporation”.**

<b>Section</b>	<b>Description</b>	<b>Page no</b>
1	Eligibility	
2	General condition of contract	
3	special condition of contract	
4	Technical Specification	
5	scope of work	
6	BOQ	
7	Formats	

## **Section1:- Eligibility conditions**

The bidders shall be required to fulfill the following eligibility criteria, the requisite documents should be submitted in the technical bid in proof of qualifying the eligibility conditions, and otherwise the technical bid shall be rejected.

- 1) The bidder should be in business of mechanized sewer cleaning work with the help of sewer jet/suction machines since last three years in any municipal body in India. the related work orders and experience certificates should be submitted in proof of the experience in year,2015-16,2016-17 and 2017-18 from any local self government body/semi government body or government institution in India. The certificates should be signed by the officer not below the rank of Executive Engineer or deputy commissioner.
- 2) The bidder should have ownership of jetting cum suction machine with **160 HP** drive unit built on **16 Ton** chassis. The bidder shall have to provide documents/papers/RC in proof of ownership of machine.
- 3) the bidder should have sufficient experience of successful completion of similar nature work of sewer cleaning by sewer jetting/suction machine in any government/local self GOVT. body in India during last three financial years for:

a) One similar work costing 75% of the package cost or more.

OR

b) Two similar work each costing 50% of the package cost or more

OR

c) Three similar work each costing 33% of the cost or more.

- 4) The bidder should have average annual turnover of the three financial years not less than the 1/3<sup>rd</sup> of the tender cost.
- 5) Net worth: the net worth of bidder should be at least 25% of bid cost.
- 6) BID Capacity: the bid capacity of the bidder shall not be less than the estimated cost of the bid. The formula for calculating Bid capacity is given here:

$$\text{Bid capacity} = (2 * A * N) - B$$

Where, A= max. value of sewer cleaning works executed in any one year during the last 5 year(updated to present price level) taking in to account the completed as well as work in progress( including current year, if opted by bidder.)

N= Prescribed completion period of work for which bids are invited, in year.(For this rate contract N=1)

B= Value at present price level (2017) of existing commitment and ongoing work to be completed during N period i.e. the period of completion of works for which bids are invited.

the present price level for turnover and cost of completed work of similar nature, the previous year's value shall be given weightage of 10% per year as follow:-

S. No	Year	weight age
1	2017-18	1.00
2	2016-17	1.10
3	2015-16	1.21
4	2014-15	1.33
5	2013-14	1.46

- 7) Litigation History: Bidders should provide accurate information on any litigation or arbitration resulting from contract complete or under execution by him over the last five years. The details shall be furnished on schedule- six.

## **SECTION 2 General condition of the contract**

**2.1 Condition of Eligibility:-**Tender document shall be available on website eproc.rajasthan.gov.in. The conditions of eligibility of bidders are mentioned in section1. The financial bids of only the qualified bidders shall be open.

**2.2 contract agreement: -** The successful bidder will have to enter into a contract agreement with department on a non-judicial stamp paper of Rs5000/- after the acceptance in the tender within one week of letter of intent/any other intimation in this regard for hiring of sewer cleaning unit.

**2.3 performance guarantees: -** the successful bidder will have to deposit performance guarantee @ 5% of the total amount as bank draft or bank guarantee of a scheduled bank acceptable by the corporation in favor of **COMMISSIONER, MUNICIPAL CORPORATION, BIKANER** payable at Bikaner. The performance guarantee shall be valid up to contract closer date i.e. one year the date of start mentioned in the letter of acceptance. if contractor fails to start the work in the stipulated time frame or does not perform satisfactorily as per contract condition the performance guarantee can be forfeited by MCB and the work may be awarded to other agency on the contractors risk and cost.

**2.4 compliance with specifications:-** bidder will have to given a certificate that offer is as per the technical specifications and shall submit with his offer the detailed data sheet for each machine and equipments which is part if the sewer cleaning units intended to be hired. The tender will be rejected in absence/incomplete data furnished by the bidder with his offer.

**2.5 pre inspection and required clearance:-** MCB if desires, may depute his representative for inspection of the sewer cleaning units to ensure compliance of offered/ordered specifications and working condition of the unit before accepting the technical offer of the bidder or deployment of the unit for works at Bikaner, if information submitted under format1 found wrong or fraudulent, earnest money of the bidder shall be forfeited and works shall awarded next lowest bidder on the rates decided by Nagar Nigam Bikaner.



## **2.6 The legal jurisdiction shall be Bikaner.**

### **Section 3 special condition of contract**

- 1) The contractor shall be responsible for cleaning of sewer lines or drains in the jurisdiction of municipal corporation Bikaner by deploying sewer machines and requisite manpower as per detailed specifications mentioned here in the documents. the contractor shall carried out the cleaning work as directed by the engineer in charge which may include preventive cleaning of sewer lines/drains or removing blockage on complaint received or emergency work in association with other civil works. The job shall be allotted in morning by the engineer in charge or its authorized representative and the contractor has to deploy machine and resources accordingly.
- 2) The item of jet machine, suction machines shall be paid on per hour basis, where the work of sewer plugging or blockage shall be paid on number basis. the per hour payment shall be linked with the satisfactory work out put, the payment shall only be applicable, when the work carried out is satisfactory to the supervisory staff deployed by engineer in charge.
- 3) the machine, equipments and manpower shall be provided as per specifications and numbers mentioned in the documents.
- 4) Generally the jetting and suction machine shall be operated 7 hours a day in 26 days of calendar month. Where the sewer plugging or sewer blockage work shall be deployed/ carried out as per site requirement. Four days in a month's are reserved for preventive maintenance or repair works.
- 5) Successful bidder shall have to deploy all machine and man power within 10 days of issue of work order, otherwise the earnest money deposited could be forfeited and the offer could be transferred to next bidder.
- 6) All the man power material, fuel and machinery required for carrying out cleaning and desilting of sewer lines and drains shall be in the scope of work and thus to be provided by the contractor at his own cost. Locating buried manhole covers with metal detector removing road crust from manhole cover and related works shall be in the scope of work of the contractor. However the civil repair of man hole or sewer line shall be responsibility of the MCB. But in cleaning time any chamber shall be break its responsibility of contractor.
- 7) The bidder shall all time keep the deployed sewer cleaning unit neat, tidy and fit in all respects. The yearly STA fitness shall also be in the scope firm.
- 8) The firm will also arrange for the third party insurance for the department for any accidents etc. the insurance charges shall be payable by the firm.
- 9) All requirement of skilled and semi skilled and other supervisory staff deployed for the works shall be the responsibility of the bidder.
- 10) The work of cleaning/desilting may be required to be done during non peak hours of sewer flow, hence sewer cleaning unit may be required to work during night hours. bidder shall deploy sewer cleaning unit for such works during night hours without any extra cost to the department including lighting arrangements and addition safety required during work.

- 11) All labor and other staff deployed for work shall be at the roll of the bidder and not on the rolls of the MCB as such their staff cannot claim for any service benefit from MCB or represent in any court of law. All labor laws and other application laws for carrying out the work shall be followed by the and the department will not be responsible for any lapse/consequences on these accounts.
- 12) The bidder shall be responsible to manage all safety measure required during the work, however, during any miss happening at site during work of sewer line cleaning units for any reason whatsoever shall be responsibility of the bidder. Bidder should ensure that the staff deployed should not have bad antecedent .the bidder will also be responsible for any damage to any equipment/property of MCB and shall also restore the same to the satisfaction of the engineer in charge.
- 13) the sewer cleaning unit should comply with pollution norms throughout the period of contract and any penalty etc. in this regard shall be in the scope of work of the bidder.
- 14) The contractor should equip the machine with suitable GPS unit which should record online operation and movement of machine with respect to time. The machine working hours shall be linked with the GPS online output sheet, which indicates the location of machine and start & off timing of machine engine wrt to its location. However, the payment of working hours shall only be payable after satisfactory work out put certified by the supervisor deployed by the engineer in charge.
- 15) **Contract Duration:** Initially the Rate contract shall be signed for One Year from the date of start as mentioned in the work order.

**16) Compliance with Labor Regulations:**

During continuance of the contract, the Bidder and his sub bidders shall abide at all times by all existing labor enactment and rules made there under, regulations, notifications and by laws of the State or Central Government or Local authority and any other labor law (including rules) regulations, bye laws that may be passed or notification that may be issued under any labor law in future either by the State or Central Government or the local authority. **Rajasthan Building and Other Construction Workers** (Regulation of Employment and Conditions of service) Rules, 2009 and Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 (Act no. 27 of 1996) shall be followed with regards to the worker deployed for the works and for safety during works as mandatory provisions under rules, Acts and laws.

**Compliance of provision of IS 11972; Safety precautions to be taken while entering a sewerage system must also be made by the Bidder.**

Due precautions shall be taken by the Bidder, at his own cost, to ensure the safety and protection against accidents of all staff and labor engaged on the works, local residents in the vicinity of the works, and the public traveling through the work sites.

The Bidder/Firm or company while executing the work will adopt all safety measures at his cost to safeguard from any loss of life and damage of public and private property. If any loss and damage is occurred, they will pay the full compensation from their own pocket to the concern. All the consequence (legal and or financial) will be

born by the Bidder only and Municipal Corporation Bikaner will not be responsible in any way.

## Section IV; Scope of Work

**4.1 Intent of the Contract:** Intent of the Contract is to ensure cleaning of sewer lines or covered storm water drains, culverts etc in various parts of Bikaner city by deploying following machines with manpower, consumables, diesel-oil, operation and maintenance during contract period on hire basis as specified in detail else-where in these specifications:

S. N.	Machine Unit	Specifications	Allied Accessories and manpower	Minimum Required Numbers
1	<b>Jetting cum Suction Machine on 16 Ton Chassis</b>	<b>160</b> HP Drive unit with <b>260 LPM/155</b> Bar Jetting power and suction blower with minimum air blower rating 800 cum/Hr	with other accessories and manpower as per specifications	1 Set
2	<b>Clear Water Tanker</b>	<b>4000</b> Liter Clear Water Tanker	with inbuilt Pump to Feed the Sewer Jetting machine Tank including 30M flexible pipe	1 Nos.
3	<b>Sewer Blockage Mechanism</b>	Sewer blockage Mechanism including MS Plates suitable for <b>150</b> mm sewer to <b>900</b> mm dia. sewer.	Accessories including skilled manpower, safety sewer man suits, Air blower and mask arrangement and suitable safety mechanism as per specifications	Minimum one set of air blower and mask unit with multiple MS plates etc.

**4.2 Machine Requirement :** High flow Pressure Jetting System works on the principal of hydrodynamic cleaning by water pressure and then collection of sludge and slurry by suction. The jetting unit should be suitable for cleaning, de-silting and de choking of drain/sewer lines respectively with or without man entry into sewers. The suction unit should be capable of air lifting of dense waste/sludge like mud, slurry, small stones, debris, grit etc. from septic tanks, sewer lines, storm water drains etc. through vacuum mode. Suction and Jetting unit with inbuilt sludge/water storage shall be mounted over separate chassis of adequate GVW that is suction and jetting units mounted on separate truck chassis's.

- 4.3 The model of Sewer Cleaning Machine (Chaise as well as Machine Engine) deployed at Site should not be older than year 2015 (Manufacturing Year), it should be equipped with the GPS System capable to record the machine engine on/off time w.r.t. time and location.
- 4.4 The scope of work of the rate contract work is in the entire Bikaner city up to its sewerage Zone limits. The work shall be carried out on approved rates as per the rate contract as and when required by Municipal Corporation Bikaner .
- 4.5 The Contractor shall be responsible for cleaning of sewer lines or drains in the Jurisdiction of Municipal Corporation Bikaner by deploying sewer machines and requisite manpower as per detailed specifications mentioned herein the documents. The contractor shall carried out the cleaning work as directed by the engineer in charge which may include preventive cleaning of sewer lines/drains or removing blockage on complaint received or emergency work in association with other civil works. The job shall be allotted in the morning by the engineer in charge or its authorized.
- 4.6 The items for Jet machines, Suction machines or sewage pumping shall be paid on per hour basis, whereas the work of Sewer blockage shall be paid on per number basis. The per hour machine payment shall be linked with the satisfactory work output, the payment shall only be applicable, when the work carried out is certified as satisfactory by the supervisory staff deployed by the Engineer in charge.
- 4.7 The machines, equipments and manpower shall be provide as per specifications and numbers mentioned in the documents. Bikaner Municipal Corporation reserves the rights to increase/decrease the numbers of machines as per their requirement.
- 4.8 Generally the Jetting machines shall be operated 7 hours a day in 26 days of calendar month. Whereas the Suction machine or sewage pumps or sewer blockage work shall be deployed / carried out as per site requirement. Four days in a calendar months are reserved for preventive maintenance or repair of machines.
- 4.9 The Bidder shall arrange water required for the Jetting and suction operation at his own cost from the private water hydrants located at various location within the work area/in vicinity of work sites Bidder is advised inspect such location before tendering.
- 4.10 The term clean as used in these specification shall mean the adequate removal of sand, dirt, roots, grease and other Solid or Semi-solid materials from the Sewer lines.
- 4.11 **Cleaning precautions:** During Sewer cleaning operation, all precautions shall be taken to protect the Sewer lines from damage that might be inflicted by the improper working.
- 4.12 **De-silting of Sewers:** De-silting of Sewers may requires plugging or blocking a particular Section of Sewer line and pumping Sewage flow for by-passing Man holes/ a particular section of Sewer / drain. Bidder shall design and insert/install such plugs whenever and wherever pumping and by passing is required. Bidder shall arrange for Generator set – Sewage pumps – piping and other equipments to bypass flow of Sewage around manholes and Sewer pipe sections isolated for de-silting work is to be done by the bidder. The payment for such works shall be made as per rate approved in relevant item of BOQ which covers payments for plugging, pumping and bypassing Sewage flow between man holes.

**4.13 Disposal of Materials :** All solids or semi-liquids resulting from the Cleaning operation shall be removed from site daily before the end of daily work and disposed off up to the site specified by Engineer in charge.

**4.13 Recording of field date:**

For each location where cleaning and de-silting is performed, a joint report by the Bidder's site Supervisor/authorized representative and SI, J.EN /A.EN of Municipal Corporation Bikaner shall be prepared with copy of sewer cleaning unit log sheet along with online GPS output sheet with following details:

- Location
- Size of Sewer or storm water drain
- Length of Sewer/SWD cleaned – De-silting
- GPS output sheet with machine on / off time wrt location.

Such record/reports shall be submitted to the Engineer in Charge with a copy to the SI and J.EN/A.EN . The Engineer in charge may prescribe format for such reports if he desired so.

**4.14 The authorized** representative of the bidder and BMC officials will jointly sign the department's authorized log sheet for hourly running of the sewer cleaning unit and generator sets with pumps and also jointly sign report. The time taken for repair/maintenance/periodical overhauling/accidental repair/ impounding machine by law enforcing or any other agency and servicing etc will not be included in working hours.

**4.15** All cleaning and de-silting work to be done by deployment of sewer cleaning unit shall be witnessed by the Engineer In-charge and or his representative Assistant Engineer.

**4.16 Penalties:** The contractor shall be liable to penalty as under if he fails to perform his contractual obligations besides any other action; the Engineer in charge. Municipal Corporation may decide to take as per the terms of the contract. Penalty shall be imposed on the contractor for delay in work of for non- maintenance of vehicles, also

-All minor repairing & preventive maintenance shall be carried out within 24 Hrs. Otherwise penalty will be imposed as per penalty shown in penalty table, which will be deducted from the monthly bill of the contractor. Preventive maintenance schedules shall be prepared in coordination with central workshop department.

- All major repairing shall be carried out within 7 days otherwise penalty will be imposed as per penalty shown in penalty table, which will be deducted from the monthly bill of the contractor.

**Minor work :** Routine service, Hose replacement, electrical work, normal fabrication/body work, external leakages (oil/water/diesel), mechanical/hydraulic settings, transmission job, brake/steering job, Hose pipe repairing/ replacement, etc., fan belts replacement, motor servicing, filter leaning/replacement, electrical fault etc. for vehicle as well as for sweeping unit. Minor engine related work. These shall be carried out by bidder on his own within specified time frame.

**Major work:** Structural damages, Main suction mechanism job, Control panel repairing &/or replacement, Vacuum mechanism, Engine o/h related work, blower related major work, etc.

Other than above repair job (for minor/major), it will be decided by Engineer in charge based on the job and will be binding to contractor-

**4.17 Insurance:-** The contractor shall be required to take full insurance for the vehicle/machine etc during the contract period. It will be the responsibility of the successful Bidder to have insurance coverage of their operating staff also. There will not be any reimbursement in this regard by Municipal Corporation Bikaner(MCB).If any mishap/accident occurs on the road or at site, the successful bidder will have to shoulder the complete responsibility of the same, right from registration of Police Complaint, lodging/follow up of the insurance claim and facing the court trials etc. It shall be the responsibility of successful Bidder to set right the vehicles/machines without raising any extra bills/claim against the same for reimbursing the same from MCB. However, they shall be liable to receive all the payments received by MCB against the settlement of insurance claims from the Insurance Institutions. Municipal Corporation Bikaner(MCB )authorities shall give the full cooperation to the successful Bidder by signing the requisite documents necessary for raising the insurance claim up to settlement of the same.

Sr.	Type of default	Penalty to be impost
1	If machine is not working properly on site	Entire shift work will be deducted for such event.
2	If machine with all necessary accessories is not deployed at site within specified time frame	Rs. 1000/- per hour for each such event (delay)
3	Non use of mobile by any of Supervisor/Manager &/or Operator.	Rs 50/- for each of such event.
4	Not Keeping valid driving license	Rs 200/- for each such event
5	If contractor fails to provide the manpower as per the requirement of MCB/specification	Rs. 1000/- Per person for that shift/event.
6	If the minor and major repairing work is not carried out as per the schedule given in tender or approved by Engineer in charge	Rs. 500/- per such vehicle per day

The penalty will be deducted from the monthly bill of the contractor.

#### **4.14 Financial offer**

1. The rates should be quoted as per item rates in the BOQ format.
2. The quoted rated must be inclusive of all taxes, Government levies, GST/VAT/Service Tax at the rates prevailing at the time of tendering.
3. Payment of hiring charges shall be made as per recorded field data- reports and log book duly certified as mentions in the relevant clauses.

## Section 5 Technical specifications

5.1 Detailed specifications and minimum requirement associated with the jetting suction machine on 16 ton truck shall be as follows-

a) Jetting unit and water tanker

Jetting pump	Minimum flow	<b>260 lpm</b>
	Minimum pressure	<b>155 bar</b>
Clean water storage	Minimum in built water storage	<b>5000 liter</b>
Drive unit	Minimum HP	<b>160</b>
Sewer jetting nozzles	Round head nozzle for de-chocking and general pipe cleaning	<b>1 no.</b>
	Conical head high trust nozzle for high trust de-chocking and general, fast cleaning of pipe	<b>1no.</b>
Jetting hose	Minimum ID	<b>25 mm</b>
	Hose reel	<b>100 meters</b>
	Minimum working pressure	<b>2500 psi</b>
Additional Water Tanker with separate vehicle	Minimum capacity 5000 liter with inbuilt water transfer pump	<b>1 no.</b>

b) Suction unit and sewage disposal tank.

Vacuum pump/ blower	Minimum Air flow rating	<b>800 cum/hr</b>
	Air delivery at 80% vacuum	640 cum/hr
	drive unit	<b>160 HP</b>
	Minimum size of suction hose	<b>100 mm</b>
Inbuilt sludge and slurry collection tank with tank washing and sewage transfer pump systems.	Minimum capacity	<b>3000 liters</b>

C) Clear water tanker:

water tanker with separate vehicle	Minimum capacity 4000 liter with inbuilt water transfer pump and 30 meter flexible hose pipe	1 no.
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D) Man power:

supervisor	<b>one</b>
truck drivers	<b>Two, one for suction unit and one for water tanker.</b>
machine operator	<b>one</b>
helper to operator	<b>one</b>
sewer man	<b>five</b>

**5.2 The detailed specification and minimum requirements of sewer blockage or plugging work shall be as follow**

1	Air blower with divers mask and sewer man safety suit	Min. 2 set.
2	MS plates suitable for sewer blocks in 150mm dia. size to 900 mm dia. size.	as per requirement
3	chain pulley block	one
4	telescopic	one
5	Skilled Manpower with helpers with all safety precautions	As per requirement.

**5.3 The compulsory requirements to be provided by contractor (payment already covered under the above mentioned item.)**

1	Diesel, oil, other consumables and spares for maintenance	as required
2	Gas Detectors, safety masks, sewer man suits, safety shoes, Ladder, Safety Ropes, warning boards, traffic diversion boards, traffic diversion cones, safety tape and other necessary safety equipments as per requirement	as per requirement
3	additional manpower required other than mentioned in the respective item to fulfill the responsibility of the scope of the work.	as per requirement



## Section 6: Sample Bill of Quantities

(Rates to be filled in soft copy excel format on eproc website)

**Name of work: Rate contract for cleaning of sewer lines and manholes by super sucker jetting cum suction machine in Bikaner.**

S. no.	Particulars	Qty.	Unit	Rate
<b>1</b>	Hiring charges for sewer cleaning machine (260 lpm) mounted on 16 ton truck chassis having jetting and suction action with inbuilt clean water storage and sludge and slurry storage tank along with one water tanker and one sludge disposal tanker, complete unit with manpower, consumable, diesel oil, including operation and maintenance during contract period for cleaning and de-silting of various sewer and storm water drains complete as detailed specification mentioned.	<b>1 hour</b>	<b>per hour</b>	
<b>2</b>	Supplying clear water by a tanker of 4000 liter capacity, inbuilt with pumping arrangement to feed the sewer jetting machine along with 30 m. length flexible hose pipe including the cost of water.	<b>1 trip</b>	<b>per trip</b>	
<b>3</b>	Plugging of the existing sewer line and manhole with 2 nos. MS sheet 6mm thick with angle iron frame and braces shutters placed on both the opening of pipes. the manhole with empty cement ( pvc) bags filled up with earth up to suitable depth to avoid leakage from of sewage from u/s side to be bypassed, till the desilting work is completed including replugging required in case of heavy leakage. the steel shutters and the earth filled PVC cement bags shall be removed after the completion of work and then the main hole shall be desilted for following sizes of sewer line.		<b>per Each</b>	
	<b>Size up to 250 mm dia.</b>	<b>1</b>	<b>each</b>	
	<b>300mm-600mm dia.</b>	<b>1</b>	<b>each</b>	
	<b>700 mm- 900 mm dia.</b>	<b>1</b>	<b>each</b>	

## **Section 7: Sample Formats to be submitted in bid**

**Format: 01**

### **Machine specification available with the bidder**

**a) Jetting unit and water tanker**

Jetting pump	Minimum flow	..... lpm
	Minimum pressure	..... bar
Clean water storage	Minimum in built water storage	.....liter
Drive unit	Minimum HP	.....HP
Sewer jetting nozzles	Round head nozzle for de-chocking and general pipe cleaning	.....NO
	Conical head high trust nozzle for high trust de-chocking and general, fast cleaning of pipe	.....NO
Jetting hose	Minimum ID	.....mm
	Hose reel	.....meters
	Minimum working pressure	..... psi
Additional Water Tanker with separate vehicle	Minimum capacity 5000 liter with inbuilt water transfer pump	.....NO.

**b) Suction unit and sewage disposal tank.**

Vacuum pump/ blower	Minimum Air flow rating	..... cum/hr
	Air delivery at 80% vacuum	.....cum/hr
	drive unit	.....HP
	Minimum size of suction hose	..... mm
Inbuilt sludge and slurry collection tank with tank washing and sewage transfer pump systems.	Minimum capacity	.....liters

The bidder should certify that they have the ownership of machine of the above mentioned technical specification and also bidder should submit the requisite documents of machine purchase document/RC.

**Signature of Bidder**

**Format: 02**

**Specification experience of applicant firm in last three years for cleaning of sewer line by super sucker machine.**

<b>S.N O.</b>	<b>Name of contract</b>	<b>contract period with start date and end date</b>	<b>cost as per work order</b>	<b>cost of Executed work</b>	<b>Address of employer, name contract person, telephone and fax number</b>	<b>certificate of employer enclosed</b>

**NOTE:**

- 1) The period of three years shall be specifically financial year, 2015-16, 2016-17 and 2017-18.
- 2) Client certificate towards satisfactory completion of work from offer not below the rank of executive engineer or its equivalent should be attachment in respect of each work. The certificate should be submitted with relevant work order.
- 3) Only work order without completion certificates shall not be valid.

**Signature of Bidder**

**Format:3**

**Financial Capacity**

<b>Year</b>	<b>Annual Turnover</b>
<b>2015-16</b>	
<b>2016-17</b>	
<b>2017-18</b>	

The Certified Copy Of Audited Balance Sheets Along With Ca Certificates Shall Be Attached.

**Signature of Bidder**

**Format:04**

**Statement for Work in Hand and Bid Capacity.**

This is to certify that the status of the present works in hand as March 2018 of order value more than 10 lakh for which either order are received or the works are under execution but which are still not completed is as under;

S.N.	Brief description of work	contact period		time left for execution after March 2018	cost of awarded work	cost of work executed up to March 2018	balance cost of unexecuted work as on March 2018
		stipulated date of start	stipulated date of completion				
						<b>Total</b>	<b>B</b>

- 1) This is to certify that this is true in all respect and can be used for calculation of the bidding capacity as per the formula given in bid documents for bid capacity. This is also certified that other order execution by the firm shall not materially affect the bidding capacity of the firm as required in this tender.
- 2) Maximum value of sum of all the contractors executed in any one year during last three year,(A=.....Lakhs in financial year.....)
- 3) List of all work completion certificates of that year should be enclosed with the statement.
- 4) Bid capacity = (2\*A\*N)-B

**Signature of bidder**

**Format:05**

**Information on Litigation history in which bidder is involved.**

<b>S.N.</b>	<b>Name of work</b>	<b>Agreement no.</b>	<b>Client</b>	<b>Financial year</b>	<b>Work order amount</b>	<b>Disputed amount</b>	<b>Remarks showing present status</b>

**Signature of bidder**