

(समाचार पत्रों में प्रकाशन हेतु)

# बीकानेर नगर निगम

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

क्रमांक/निर्माण/2016-17/ 445

दिनांक.....9-1-17...

## निविदा-सूचना सं० 30/2016-17

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.SPMP.raj.nic.in](http://www.SPMP.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 High Power Super Sucker Jetting cum Suction Machine in Bikaner. <b>135.24 Lacs</b>
निविदा की कुल लागत	:	रुपये 135.24 लाख
धरोहर राशि (2 प्रतिशत)	:	271000/-
ऑनलाईन निविदा फार्म मिलने की तिथि	:	01.02.2017 9.30 बजे से 13.02.2017 18.00 बजे तक
ऑनलाईन निविदा फार्म जमा कराने की तारीख	:	01.02.2017 9.30 बजे से 13.02.2017 18.00 बजे तक
ऑनलाईन तकनीकी बिड खोलने की तिथि	:	15.02.2016 को 15.00 बजे
निविदा शुल्क, प्रोसेसिंग फीस एवं धरोहर राशि जमा कराने की तारीख	:	14.02.2016 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।

आयुक्त  
नगर निगम, बीकानेर

दिनांक.....9-1-17...

क्रमांक/निर्माण/2016-17/ 445

प्रतिलिपि :-


- 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 करावे।

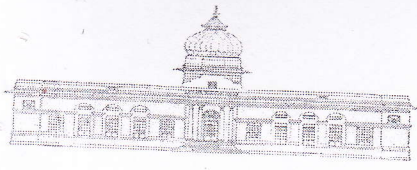
आयुक्त  
नगर निगम, बीकानेर

निविदा-सूचना सं० 30/2016-17

(टाईम फारमेट :- 24 घण्टे)

निविदा कार्य	1	Rate Contract for Cleaning of Sewer Lines and Manholes by High Power Super Sucker Jetting cum Suction Machine in Bikaner. <b>135.24 Lacs</b>
धरोहर राशि	:	अनुमानित लागत का 1/2 प्रतिशत अथवा 2 प्रतिशत
धरोहर राशि (2 प्रतिशत)	:	271000 / -
ऑनलाईन निविदा फार्म मिलने की तिथि	:	01.02.2017 9.30 बजे से 13.02.2017 18.00 बजे तक
ऑनलाईन निविदा फार्म जमा कराने की तारीख	:	01.02.2017 9.30 बजे से 13.02.2017 18.00 बजे तक
ऑनलाईन तकनीकी बिड खोलने की तिथि	:	15.02.2016 को 15.00 बजे
निविदा शुल्क, प्रोसेसिंग फीस एवं धरोहर राशि जमा कराने की तारीख	:	14.02.2016 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 :- nagarnigambikaner@gmail.com, Web Site :- www.bikanermc.org

क्रमांक/निर्माण/2016-17/

दिनांक.....

निविदा-सूचना सं० 30/2016-17

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।

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 High Power Super Sucker Jetting cum Suction Machine in Bikaner.	135.24	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।

नोट :- स्थानीय निकाय विभाग जयपुर के अन्तर्गत उपर्युक्त श्रेणी में रजिस्टर्ड फर्म एवं नगर निगम बीकानेर संभाग में रजिस्टर्ड "डी" क्लास फर्म 15.00 लाख तक के कार्य एवं "सी" क्लास फर्म 50.00 लाख तक के कार्य एवं "बी" क्लास फर्म 1/2 प्रतिशत धरोहर राशि जमा करवाने पर एवं अन्य विभागों के "एए" अथवा "ए" श्रेणी के संवेदक 2 प्रतिशत धरोहर राशि जमा करवाकर निविदा में भाग ले सकते हैं।



1. स्थानीय निकाय विभाग जयपुर के अन्तर्गत उपर्युक्त श्रेणी में रजिस्टर्ड फर्म एवं नगर निगम बीकानेर संभाग में रजिस्टर्ड "डी" क्लास फर्म 15.00 लाख तक के कार्य एवं "सी" क्लास फर्म 50.00 लाख तक के कार्य एवं "बी" क्लास फर्म 1/2 प्रतिशत धरोहर राशि जमा करवाने पर एवं अन्य विभागों के "एए" अथवा "ए" श्रेणी के संवेदक 2 प्रतिशत धरोहर राशि जमा करवाकर निविदा में भाग ले सकते हैं।
2. निविदा प्रपत्रों हेतु डाउनलोड की अवधि 01.02.2017 ,9.30 बजे से 13.02.2017 बजे तक होगी।
3. (अ) निविदा प्रपत्र फॉरमेट में वेबसाइट <http://eproc.rajasthan.gov.in> पर 01.02.2017 9.30 बजे से 13.02.2017 18.00 बजे तक जमा करवाये जा सकते हैं एवं प्राप्त तकनीकी निविदाएं, इलैक्ट्रॉनिक फॉरमेट में वेबसाइट <http://eproc.rajasthan.gov.in> पर अधिशाषी अभियंता, नगर निगम, बीकानेर निर्माण अनुभाग में 15.02.2017 को 15.00 बजे खोली जावेगी।
4. 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।
5. अधिशाषी अभियंता, नगर निगम, बीकानेर निर्माण अनुभाग कार्यालय में संवेदक द्वारा 01.02.2017 9.30 बजे से 13.02.2017 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।
6. निविदादाता द्वारा निविदा शुल्क/धरोहर राशि डिमांड ड्राफ्ट/बैंकर चैक अथवा निविदा प्रपत्रों में वर्णित किसी एक प्रकार के रूप में संबंधित कार्यालय में 14.02.2017 9.30 बजे से 16.00 बजे तक जमा कराना आवश्यक है।
7. 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 नं0531101010032195, IFSC कोड UBIN0553115 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।
8. निविदा खोलने की दिनांक से 90 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।
9. 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।
10. इस कार्यालय के आदेश क्रमांक 16608-16 दिनांक 10.11.2016 की समस्त शर्तें लागू होगी।
11. निविदा शुल्क :- 5000/-
12. प्रासेसिंग :- 1000/-



13. ई- टेन्डरिंग के लिये निविदादाता हेतु निर्देश

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

ब- निविदाओं में भाग लेने वाले निविदादाताओं को इंटरनेट 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 - 3 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 लेट 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।

व- इस कार्यालय के आदेश क्रमांक/निर्माण/2016-17/16608-16 दिनांक 1.11.2016 द्वारा जारी समस्त शर्तें लागू होगी।

आयुक्त  
नगर निगम, बीकानेर

**Section I- Part B: 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, otherwise the technical bid shall be rejected.

- 1) The bidder should provide documents/papers/RC of ownership of Super Sucker machine made on minimum 280 HP driven Truck for Jetting and separate Suction machine on Minimum 280 HP driven Truck. Also, the Jetting power should not be less than 470 LPM and Suction power should not be less than 5900 cum per hour of that machine.
- 2) The bidder should have sufficient experience of successful completion of similar nature work of Sewer Cleaning by Sewer Jet / Suction Machine in any Government / Local Self Govt. body in India during last three financial years for;
  - I. One similar work costing 80% of the Package cost or more. (i.e. one work of Rs 108.19 Lacs or more in single work package).
  - II. Two similar work each costing 60% of the Package cost or more (i.e. Minimum two works each costing Rs 81.14 Lacs or more in single work package).
  - III. Three similar work each costing 40% of the Package cost or more (i.e. Minimum three works each costing Rs 54.10 Lacs or more in single work package). The bidder should have ownership of following machines.
- 3) The bidder should have average annual turnover of the last three financial years not less than the 50% of the tender Cost (i.e. Rs 67.62 Lacs)
- 4) The bidder should provide details of its bidding capacity as per the formula, where assessed available bid capacity =  $(2AN-B)$ , where, A = Max value of sum of all the contracts executed in any one year during last three years (updated to current price level) which will take into account the completed as well as work in progress, N is the number of years prescribed for completion of works for which the bids are invited (here N =1) and B = Value, at present price level, of existing commitments and ongoing work (at hand) to be executed during "N" (Period prescribed for completion of the works for which the bids are invited).
- 5) For calculation of contract values of previous years, updated to current price levels, the previous year shall be given weight age of 10% viz. year 15-16 = 1.0, Year 14-15 = 1.1 and year 13-14 = 1.21 and for current year price level should be given weight 1.0)
- 6) 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 max value (updated to the present price level) of Disputed amount claimed in litigation Arbitration resulting from contracts executed in last five years shall be deducted from the calculated Bid Capacity of the bidder. The details shall be furnished on Schedule-VI.



## **Section II: General conditions of the contract**

### **2.1 Condition of Eligibility**

Tender documents shall be available on portal. The Conditions of Eligibility of Bidders are mentioned in Section I: Part 2. 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 0.25% Work order Amount after the acceptance of the tender within one week of the issue of Letter of Intent / any other intimation in this regard for hiring of sewer cleaning unit.

### **2.3 Performance Guarantee:** - The successful bidder will have to deposit Performance Guarantee @10% 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** or it may be deposited as per RTTP Act-2012 and Rules 2013 latest amended up to date. The Performance Guarantee shall be valid up to Contract Closure Date from the date of start mentioned in the Letter of Acceptance. If the contractor fails to start the work in the stipulated time frame or does not perform satisfactorily as per contract conditions the performance guarantee can be forfeited by BMC and the work may be awarded to other agency on the contractor's risk and cost.

### **2.4 Compliance with specifications:** - Bidder will have to give a certificate that the offer is as per the Technical specifications and shall submit with his offer the detailed data sheet for each machine and equipment which is part of 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 Annexure found wrong or fraudulent, earnest money of the Bidder shall be forfeited and the works shall awarded next lowest bidder on the rates decided by BNN.

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



### **Section III : Special Conditions of Contract**

- 3.1 The hiring charges will be quoted on HOURLY RUNNING BASIS. The vehicles shall be operated and maintained by the bidder. Successful bidder will start the work by deploying sewer cleaning machine with entire man power and other equipments with 10 days of the issue of work order. If the Bidder fails to start the within 10 days, the Bidder who has quoted next lowest rates shall be asked to execute the work at ordered rates.
- 3.2 (i) All the manpower material, fuel and machinery required for carrying out cleaning and de-silting of sewers and drains shall be in the scope of work and thus to be provided by the Bidders at his own cost.
- (ii) 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 of firm.
- (iii) A minor and major repairs of the equipments required due to any accident, natural calamity, riots and theft etc. shall be under the scope of the work of the firm.
- (iv) 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.
- (v) All court matters impounding and other implications due to accident, negligence of operator and any other reason shall be dealt by the Bidder at his risk and cost at all levels and all matters.
- (vi) All requirements of skilled and un-skilled and other supervisory staff deployed for the work shall be the responsibility of the Bidder.
- (vii) The work of cleaning/de-silting may be required to be done during non peak hours of sewer flow, hence sewer cleaning unit may be required to work during also in 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 additional safety required during work.
- (viii) 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 applicable laws for carrying out the work shall be followed by the bidder and the Department will not be responsible for any laps / consequences on these accounts.
- (ix) The bidder shall be responsible to manage all safety measures required during the work, however during any miss happening at site during work of Sewer 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 restore the same to the satisfaction of the Commissioner.
- (x) 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.

#### **3.3 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 bye laws of the State or Central Government of local authority and any other labour 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 workers 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 labour engaged on the works, local residents in vicinity of the works, and the public travelling 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 financial) will be borne by the Bidder only and Bikaner Nagar Nigam will not be responsible in any way.



**(Sh Lalit Ojha)**  
**Executive Engineer**  
**Bikaner Municipal**  
**Corporation**



**(Sh R.K. Jaiswal)<sup>RAS</sup>**  
**Commissioner**  
**Bikaner Municipal**  
**Corporation**

**Signature of Bidder**

### **Section IV : Scope of Work**

- 4.1 **Intent of the contract:** Intent of the Contract is to hire on Rate contract basis the High, flow-pressure Jetting cum Suction machine with one sludge and slurry collection tank, one sewage disposal tanker, one water tanker, generator set and sewage pumps etc. complete unit with manpower, consumables, diesel-oil, operation and maintenance during contract period on specified in detail elsewhere in these specification for cleaning and de-silting of sewer lines and covered storm water drains, culverts etc. in various parts of Bikaner City. The Complete unit is named as Sewer cleaning unit.
- 4.2 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 Bikaner Municipal Corporation. Generally the machine is required in Pre Monsoon and during Monsoon period, however for specific emergency work the machine can be called by BMC. Once deployed the Sewer Cleaning Unit the each component of the machine shall be made available round the clock in the city and its dispatch out of city should not be permitted without prior permission of the Engineer in charge BMC.
- 4.3 Bidder shall furnish all necessary machinery equipment material, Labor and services required for cleaning and de-silting the designated Sewer line, manholes and storm water drain etc.
- 4.4 The Contractor is advised to inspect the work sites, operating condition of Sewers and drain to ascertain the nature of work and requirements of training and skill of manpower to be deployed for operation Sewer cleaning units for the intended works before Tendering.
- 4.5 A soon after receiving letter of intent/work order for hiring of sewer cleaning unit the Bidder shall deploy his experienced representative/Supervisor for preparing work plan after site visits, inspection of Sewer and drains mentioned in Scope of work and as directed by the Engineer In-charge. MCB shall provide services of Sanitary Inspector and Sewer workers for opening and closing of manhole covers and for other work required during such inspection.
- 4.6 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.
- 4.7 The term clean as used in these specifications shall mean the adequate removal of sand, dirt, roots, grease and other Solid or Semisolid materials from the Sewer lines. The designated Sewer line Manhole and storm water drains shall be cleaned by using high flow-pressure Jetting cum Suction machines so called super sucker.
- 4.8 **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.
- 4.9 **De-silting of Sewers:** De-silting of Sewers many requires plugging or blocking a particular Section of Sewer line and pumping Sewage flow for by passing Man holes/ a particular suction of sewer / drain. Bidder shall design and insert/install such plugs whenever and wherever pumping and bypassing 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 item no. 1 Format – 01 covers payments for plugging, pumping and by passing Sewage flow between manholes.
- 4.10 **Disposal of Material:** All solids or semi solids resulting from the Cleaning operation shall be removed from site and disposed of in an approved manner. All material shall be removed from site daily before the end of daily work.



- 4.11 **Recording of field data:** For each location where cleaning and de-silting is performed, a joint report by the Bidder's site Supervisor/authorized representative and Assistant location and size of sewer line or storm water drain cleaned/de-silted
- 4.12 The authorized representative of the bidder and BNN officials (Concerned area Junior Engineer and Sanitary inspector) 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 repairs / impounding machine by law enforcing or any other agency and servicing etc. will not be included in working hours.
- 4.13 The cleaning and de-silting work to be done by deployment of sewer cleaning unit shall be inspected by the Engineer In-charge and or his representative Assistant Engineer randomly.
- 4.14 **Financial Offer**
  1. The rates should be quoted as per item rates in the BOQ format.
  2. The quoted rates must be inclusive of all taxes, Government levies, 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 mentioned in the relevant clauses.

### **Section V: Technical Specifications**

- 5.1** The High flow – pressure jetting and suction units or so called Sewer cleaning Unit shall comprising of following equipments;

1	Jetting/Suction Unit with inbuilt Sewage and slurry collection Tank and clean water storage tank	one
2	Sewage disposal Tank	One
3	Clean Water Tank with Transfer Pump and House	One
4	Exhauster-Cum-Air Blower for ventilation of sewers capacity 3000 cfm	One
5	Non clog sewage Sludge Submersible Pump Set of capacity 10-20 hp, 2000-4250lpm (minimum Total combined capacity 8250lpm) against 12m head.	02 to 04 Nos.
6	63KVA D.G. Set along with Electric Panel Board for feeding the supply to the pump set	One
7	Gas Detector and all other safety equipments required for safety of sewer workers and supervisory staff.	As required
8	Chain Pulley Block	One
9	Telescopic Tripod	One
10	Diesel, oil, other consumables and spares for maintenance	As required
11	Manhole Detector Equipment	One
12	Man power, Drivers, helpers, skilled labor, Maintenance Engineer	As mentioned elsewhere in these specifications and as per scope of work

**5.2 High Flow Pressure Jetting & Suction System: General requirements**

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, sewers lines, storm water drains etc. through vacuum mode. Suction and Jetting unit with inbuilt sludge/ water storage shall be mounted over separate truck chassis's.

- 5.3** The detailed specification and minimum requirements of each equipments of sewer cleaning unit shall be as follows:

<b>5.1.1 Jetting unit and water tanker</b>			
	Jetting Pump	Minimum Flow	470 lpm
		Minimum Pressure	140 bar
	Clean Water storage	Minimum in built water storage	14000 Lit.
	Drive Unit	Minimum HP	250
	Sewer Jetting Nozzles	Round Head Nozzle for de-choking and general pipe cleaning	2 Nos.
		Conical Head High Thrust Nozzle for high thrust de-choking and general, fast cleaning of pipes.	2 Nos.
		De-silting Flat Nozzle 14 Jets-	One
		Balanced Nozzle	2 Nos.
	Jetting House	Minimum ID	25.4 mm



		Hose reel	150 meters
		Minimum working pressure	210 bars
	Truck mounted water transportation tanker	Minimum Capacity 10,000 Liter with water transfer pump	One
	<b>Man Power</b>	Supervisor	One
		Truck Drivers	Two; One for Jetting unit and one for water transport tanker
		Jetting unit operator	One
		Helper to operator	One
		Sewer Man	One
<b>5.3.2</b>	<b>Suction unit and sewage disposal tank</b>		
	Vacuum Pump/Blower	Minimum Air Flow rating	5900 cum/Hr
		Air delivery at 80% vacuum	4100 cum/Hr
		Drive Unit	250 Hp
		Minimum Size of Suction Hose	150 mm
	Inbuilt Sludge and Slurry collection tank with tank washing and sewage transfer pump systems	Minimum capacity	14000 liters
	Sewage disposal tanker	One truck mounted sewage disposal tanker of Minimum Capacity 10,000 Lit	One
	<b>Man Power</b>	Supervisor	One
		Truck Drivers	Two; One for Suction unit and one for sewage disposal tanker
		Suction unit operator	One
		Helper to operator	One
		Sewer Man	Six
		<b>Pump Driver, Mechanic, fitter Electrician as required to operate bypass pumping system and maintain suction and jetting units.</b>	

### **Section VI: Sample Bill of Quantities**

**Name of work: - Rate Contract for Cleaning of Sewer Lines and manholes by High Power Super Sucker Jetting cum Suction Machine in Bikaner.**

S.NO.	Particulars	Qty.	Unit	Rate Rs/Hour
1.	Hiring charges for Truck mounted Sewer Cleaning Machine having Jetting and Suction action as per Specifications 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, consumables, diesel-oil, including operation and maintenance during contract period for cleaning and de-silting of various sewers and storm water drains complete as per detailed specification mentioned.	1 Hour	per Hour	
2	Hire charges for 63 KVA Generator set with 2 to 4 nos. of 2000-4250 lpm Capacity (Minimum Total combined capacity 8250lpm) 12 meter head non-clog Sewage pumps with panel board, Submersible Cable, 150mm dia PVC Suction and delivery Hose in 15mtr length with a set of quick connect nose coupling for total piping length 180mts. With manpower, consumables, diesel-oil, including operation and maintenance during contract period (for Day-night working)	1 Hour	Per hour	
3	Plugging of the existing sewer line and Manhole with 2 nos. MS sheet 6 mm 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 re-plugging 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 manhole shall be de-silted for following sizes of sewers ;			
	Sizes up to 250mm dia	1	Each	
	300mm-600 mm dia	1	Each	
	700 mm dia-900 mm dia	1	Each	
	Sizes 1000mm dia or above	1	Each	



## **Section VII: Sample Formats to be submitted in Bid**

### **Format: 01**

#### **Machine Specifications Available with the Bidder**

<b>Jetting unit and water tanker</b>		
Jetting Pump	Minimum Flow	..... lpm
	Minimum Pressure	..... bar
Clean Water storage	Minimum in built water storage	..... Liters
Drive Unit	Minimum HP	..... HP
Sewer Jetting Nozzles	Round Head Nozzle for de-choking and general pipe cleaning	..... No
	Conical Head High Thrust Nozzle for high thrust de-choking and general, fast cleaning of pipes	..... No
	Balanced Nozzle	..... No
Jetting Hose	Minimum ID	..... mm
	Hose reel	..... meters
	Minimum working pressure	..... psi
Truck mounted water transportation tanker	Minimum Capacity 10,000 Liter with water transfer pump	.....No
<b>Suction unit and sewage disposal tank</b>		
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
Sewage disposal tanker	One truck mounted sewage disposal tanker of Minimum Capacity 10,000 Lit	.....No

The bidder should certify that they have the ownership of machine of the above mentioned technical specifications and also Bidder should submit the requisite documents of machine Purchase documents/ RC etc.

**Signature of Bidder**

**Format: 02****Specific Experience of Applicant Firm in last three years for Cleaning of Sewer Lines by Super Sucker Machine**

S. No.	Name of Contract	Contract Period		Cost as per Work Order	Cost of Executed Work	Address of Employer, Name Contact person, Telephone and Fax Number	Certificate of Employer enclosed
		Date of Start of work	Date of Completion of Work				

**NOTE:**

1. The period of three years shall be specifically financial year 13-14, 14-15, 15-16. That means the work order date should be after 01.04.13 and work completion date should be before 31-3.16.
2. Client Certificate towards satisfactory completion of work from officer 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 orders.
3. Only work order without completion certificates shall not be valid.

**Signature of Bidder**



**Format: 03****Financial Capacity**

<b>Year</b>	<b>Annual Turnover</b>
<b>2013-14</b>	
<b>2014-15</b>	
<b>2015-16</b>	

1. 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 on 1-4-16 of order value more than Rs 10.00 Lacks for which either orders are received or the works are under execution but which are still not completed is as under;

S. No.	Brief Description of work	Contract Period		Time left for Execution after Sep16 (in months)	Cost of awarded Work	Cost of work executed up to Sep 16	Balance cost of unexecuted work as on Sep 16
		Stipulated Date of Start	Stipulated Date of Completion				
						Total	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 orders under 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 contracts executed in any one year during last three years. (A=..... Lacks in Financial year.....)
3. List of all work completion certificates of that year should be enclosed with the statement.
4. Bid Capacity =  $2 \times A \times 2 - B = \dots\dots\dots$

**Signature of Bidders**



**Format: 05****Information on Litigation History in which bidder is involved.**

S.N.	Name of Work	Agreement No	Client	Financial Year	Work Order Amount	Disputed Amount	Remark Showing Present Status

**Signature of Bidder**