

SECTION 2.1: SPECIFICATIONS

A main bidder with an alternative bidder will be appointed. If the main bidder defaults on the contract, the client can appoint the alternative bidder, terminating the contract with the main bidder.

SPECIFICATIONS	COMPLY YES / NO	PAGE TO REFERENCES
2.1.1 The Hessequa Municipality wishes to enter into a contract with a suitable supplier or suppliers for the cleaning of storm water pipes in the Hessequa Municipal Area for a contract period of three (3) years, from date of appointment.		
2.1.1. Conditions		
2.1.2.1 Material will be ordered as and when required.		
2.1.2.2 Bidders are required to indicate the delivery period (Section 3.2 – MBD1) after the receipt of an official order.		
2.1.2.3 If the successful (preferred) bidder cannot or does not deliver the material within the delivery period as indicated, the bidder must inform the Municipality in writing of delays in delivery.		
2.1.2.4 Should the bidder fail to inform the Municipality and the material is not delivered within the delivery period, the order will be cancelled.		
2.1.2.5 All prices must be valid for a period of three (3) years.		
A1 HAZARDOUS NATURE OF WORK The work undertaken during this tender is hazardous in nature and Tenderers are required to take every possible precaution to protect their workers and the general public.		
A2 STANDARD OF WORKMANSHIP		
A2.1 The attention of Tenderers is particularly drawn to the high standard of workmanship applicable to this contract.		
A2.2 Tenders will only be considered from Tenderers who have in their employ, in the opinion of the Manager Technical Services or his Representative, have had adequate previous experience in comparable works and who have the necessary plant and equipment to carry out works. The experience required is primarily in regard to the contracting firm itself, although the experience of individuals employed by the firm or firms, are also of importance. All tenders must be accompanied by a detailed statement of the Tenderer's experience in works of similar nature.		

A3 TENDERER'S SUPERINTENDENCE		
A3.1 The Tenderer shall give or provide all necessary superintendence due to the execution of the works and must at least have one year experience in this type of work and must be able to read maps and drawings.		
A3.2 The Tenderer or a competent and authorised agent or representative approved of in writing by the Manager Technical Services or his Representative (which approval may at any time be withdrawn), is to be constantly on the works and shall give his whole time to the superintendence of the works. Such authorised agent or representative shall receive and execute on behalf of the Tenderer directions and instructions from the Manager Technical Services or his Representative.		
A3.3 The superintendent must be familiar with the contents of the tender document.		
A4 DEMONSTRATION OF EQUIPMENT		
A4.1 During the tender evaluation period, new Tenderers may be called upon to demonstrate the cleaning equipment available for the various items. The demonstration will be to the Tenderer's cost.		
A4.2 Tenderers intending to hire vehicles and/or mechanical cleaning equipment, must include a statement from the hiring company indicating details of the equipment to be hired. Tenderers failing to complete statement from hiring company will not be considered for items requiring mechanical cleaning equipment.		
A4.3 During the course of the contract, Tenderers could be called upon to demonstrate the suitability of their equipment for specialised tasks. The cost of such demonstrations will be paid for as per the Schedule of Rates.		
A5 VEHICLES AND EQUIPMENT		
A5.1 The Tenderers vehicles and equipment used for performing services shall be adequate to perform the services required by the tender, as may reasonable determined by the Manager Technical Services or his Representative from time to time. As the vehicles and equipment become fully depreciated or reach the end of their useful life, Tenderer shall immediately purchase, rent or lease vehicles and equipment to satisfy such requirements or replace such retired vehicles and equipment.		

<p>A5.2 The Tenderers vehicles and equipment shall be registered by the Tenderer and are to be licenced and operated in accordance with the Road Traffic Act, Act 29 of 1989 and current Road Traffic Regulations and shall operate in compliance with all applicable central, provincial and local laws and regulations.</p>		
<p>A5.3 The Tenderer shall keep all vehicles and equipment used for performing services in good repair, appearance and sanitary condition. Each vehicle shall have at least one broom and shovel at all times to clean up solid waste that may be spilled or otherwise scattered during the process of collection. All lights, horns, warning devices, mufflers, fuel tanks and emission controls on the said vehicles and equipment shall be kept operable at all times, with an average fleet downtime of no more than 24 hours. Time loss must be made up either by working longer hours or at weekend as directed by the Manager Technical Services or his Representative.</p> <p>When vehicles are down for maintenance or repair, it shall be the Tenderer's obligation to provide a replacement vehicle from the spare units in its fleet or a comparable replacement through a rental agreement. All odometers on the said vehicles shall be kept operable at all times and shall be replaced only upon prompt notice thereof to the Manager Technical Services or his Representative.</p>		
<p>A5.4 All vehicles and equipment shall be operated by qualified and licenced operators and so as not to harm human health or the environment. All vehicles shall be sufficiently secure so as to prevent any spilling or littering of solid waste and/or leakage of fluid. No vehicles shall be wilfully overloaded. The noise level of all vehicles during operations shall not exceed seventy-five decibels at a distance of eight meters measured at an elevation of 1.8 meters above the ground</p>		
<p>A5.5 The Tenderer shall provide all solid waste vehicles with drainage tanks, so that liquids leaking from the solid waste are captured and contained on the truck and spillage of such liquids to the streets is prevented. These liquids may be discharge to catch pits and manholes but not onto roadways. The liquids captured and held within the drainage tanks are to be emptied only at the officially designated disposal site, or a holding tank at the officially designated transfer station. All vehicles shall meet environment emission requirements and be subjected to inspection on an ad-hoc basis by the Manager Technical Services or his Representative.</p>		
<p>A5.6 All vehicles shall maintain a record book of time and movement, including departure time from the parking area at the start of work, arrival time at and departure time from the officially designated discharge location, and arrival time at any parking area at the end of work. Trucks which have their loads weighed or measured, shall have this data included in the vehicle log books. Downtime and the nature of any break down and repair activities shall also be recorded in the record books. Data from the trucker books shall be collated and presented in a monthly report of service delivery from the Tenderer to the Manager Technical Services or his Representative. In addition, the Manager Technical Services or his Representative, shall have access to the trucker books upon demand.</p>		

A6 IDENTIFICATION AND UNIFORMS		
A6.1 The Tenderer shall provide all Tenderers staff with identification cards, with their name, photo and identification number and require them to carry the said identification cards at all times for monitoring purposes. When requested to do so by the Manager Technical Services or his Representative, the Tenderer shall submit their identification cards for inspection.		
A6.2 The Tenderer shall provide a <u>minimum</u> of a readily recognizable, level two type (minimum) bright/fluorescent orange, red-orange or yellow in colour with retro-reflective strips (as indicated in Chapter 13 of Volume 2 of the South African Road Traffic Signs Manuel SARTSM) bibs with the Tenderer's name and telephone number clearly displayed to all its workers, to be worn at all times when performing works for this contract, so that they can be readily observed and their performance can be readily monitored. Bibs shall be replenished as they become worn or damaged and on at least a semi-annual basis.		
A6.3 The Tenderer shall provide protective shoes and gloves to all workers, for use at all times during performance of works for this contract. Other protective clothing shall be provided with equipment which facilitates their work and limits their direct contact with the waste materials.		
A7 PERFORMANCE MONITORING		
A7.1 The Tenderer shall execute the works in strict accordance with the contract to the satisfaction of the Manager Technical Services or his Representative and shall comply with and adhere strictly to the Manager Technical Services or his Representative's instructions and directions on any matter (whether mentioned in the contract or not). The Tenderer shall take instructions and directions only from the Manager Technical Services or his Representative.		
A7.2 Fourteen days after the award of the contract, the Tenderer must issue a method statement for approval by the Manager Technical Services or his Representative indicating exactly how the work will be executed.		
A7.3 Works can only commence once the Tenderer received a written instruction with an explanatory drawing from the Manager Technical Services or his Representative. No payment will be made unless the written instruction with the drawing is submitted with the Tenderer's payment invoice.		
A7.4 The Tenderer shall allow the Manager of Technical Services or his Representative to have access at all times to inspect the work being conducted, to inspect all records and documents maintained by the Tenderer regarding work performed, and to inspect the		

equipment, including spare parts inventories, stores and workshop repair facilities.		
A7.5 The Tenderer shall inform the Manager Technical Services or his Representative timeously of any problem at site.		
A8 WORKS COMPRISING THE TENDER		
A8.1 This tender comprises the cleaning of catch pits and underground storm water conduits as required by the Manager Technical Services or his Representative from time to time using mechanical cleaning methods.		
A8.2 Bill A includes for the cleaning, unblocking and removal of sand, sludge, tree roots or other foreign matter from all catch pits, intakes, outlets and underground storm water conduits and disposal thereof at either disposal sites for all material removed. Tipping costs will be for the municipality's account, providing proof of tipping is submitted. The Tenderer may be called upon to inspect pipes and culverts by means of CCTV inspection equipment to ensure they have been cleaned as indicated in Bill B.		
A8.3 Bill B includes for day works rates various types of mechanical cleaning equipment and CCTV equipment Rates submitted for this Schedule are to include for the cost for establishment on site.		
A8.4 Bill C includes for cockroach treatment and disinfection of catch pits and/or manholes and surrounds.		
A8.5 Bill D includes rates for cleansing of pipes per meter and CCTV equipment Rates submitted for this Schedule are to include for the cost for establishment on site.		
A8.6 The Tenderer may be called upon to assist the Council with the cleaning or clearing of emergency blockages or special tasks for which he will be paid in accordance with the schedule of rates. The response time for such emergency callouts will be 4 hours i.e. from the time the call was received by the Tenderer to the time of arriving on the site. In the event of an emergency outside normal hours, the minimum callout time of 4 hours will be paid to the Tenderer, regardless of the time (under 4 hours) required to deal with the emergency. The response time for such emergency callouts will be hours if from the time the call is received by the contractor to the time of arrival on site, the Tenderer is within the Hessequa municipal area.		
A8.7 Once all work at designated catch pits and manholes are complete, the Tenderer may be requested by the Manager Technical Services or his Representative to treat for cockroaches with Pestolac or similar as per Bill C. Application is to be as specified by the Manufacturer. The Tenderer may also be called upon to disinfect catch pits and/or manholes with a		

pinebased disinfectant of any manufacture. Application is to be as specified by the Manufacturer. In addition to compliance with the Occupational Health Safety Act, persons who apply any anti-cockroach insecticide must be individuals who are fully trained and/or qualified in the use of that specific product and the foreman/supervisor must ensure that the necessary protective measures are taken. Cockroach treatment and disinfecting of catch pits and manholes are only to be carried out on instruction by the Manager Technical Services or his Representative.		
<p>A8.8 Combination high pressure jet machines/vacuum tankers employed under Bill A will be used for activities as indicated by the Manager Technical Services or his Representative.</p> <p>Such activities include:</p> <ul style="list-style-type: none"> Connections, pipes and culverts (no limitations) Intakes and outlets Pump stations and wet wells General catch pit cleaning Catch pits on freeways and their connections Or any other activity suitable for such equipment 		
A8.9 No work may be undertaken at night unless prior permission has been obtained from the Manager Technical Department or his Representative.		
A8.10 Additional equipment employed under Bill B will be used for activities as indicated by the Manager Technical Department or his Representative.		
A8.11 Catch pits in major roads where the speed limit exceeds 60km per hour may only be cleaned by means of mechanical combination units.		
A9 METHOD OF CLEANING		
A9.1 Required Equipment		
A9.1.1 The Tenderer must have the following equipment available: One combination unit, one high pressure jet machine, one set bucket machines, CCTV inspection equipment and pumps.		
A9.1.2 Tenderers must have a minimum of 1 combination unit available, to be considered for this tender. If the Tenderer intends to hire such a unit, he must have a letter from the company from which he intends to hire the unit and must include the hiring rate in rand denomination. These units must be available for inspection during the tender evaluation period.		

A9.2 Minimum specifications for mechanical equipment		
A9.2.1 Combination unit		
A9.2.1.1 A combination unit is deemed to be a high pressure jet machine and vacuum/suction unit mounted on a single chassis.		
A9.2.1.2 The high pressure jet machine's pump shall be capable of providing a jetting pressure of at least 150 bar at a flow rate of at least 220 litres per minute, measured at the pump.		
A9.2.1.3 The jetting shall be a minimum of 19mm nominal diameter with a minimum operational length of 120 meters at all times.		
A9.2.1.4 The jetting hose shall be wound onto a hose reel, which is power driven in both the clockwise and anti-clockwise directions.		
A9.2.1.5 All units shall be equipped with a water tank that must be filled through approved pressure break, which shall be a minimum of twice the feed diameter above the spill over level.		
A9.2.1.6 The vacuum/suction unit may have the vacuum created by either airflow or Roots type blowers.		
A9.2.1.7 Suction shall be via a suction pipe of 100mm minimum diameter and shall effectively pick up wet and dry materials to a depth of up to 5.0m.		
A9.2.1.8 On all suction units, decanted liquids only, shall be returned to the system being cleaned via an approved return pipe, which shall be kept with the unit at all times. Decanted liquids are to be discharged directly into a catch pits or manholes, NOT ONTO THE ROAD SURFACE.		
A9.2.1.9 The rate for combination units will include for all drivers, operators and assistants, fuel, water, root cutting equipment and a full range of nozzles, including forward blasters for the breaking of blockages as listed in the minimum equipment table.		
A9.2.1.10 The debris tank must have facilities to separate the solids from the liquid with a capacity of at least 6 cubic meters for the debris tank and 4 cubic meters for the water tank.		

A9.2.1.11 The debris tanks must be able to discharge the solid contents by means of tipping or by a hydraulic ram system. The door of the debris tank must be hydraulically operated.		
A9.2.1.12 The following minimum equipment is required per combination unit:		
<div style="border: 1px solid black; padding: 5px;"> Safety/first aid kit Manhole lifter Pick Spade Sledge hammer Retro-jet Bomb Pointed or penetrating nozzle (forward blaster) Rotating nozzle or chain flail 10m minimum lay flat hose for filling the water tank 10m minimum lay flat hose for decanting the liquid from the debris tank Elbow or similar blocking device to prevent material being washed downstream Metered standpipe (ex. Water services) Traffic cones Traffic accommodation signs Gas detector </div>		
A9.2.2 Bucket machines (Optional)		
A9.2.2.1 Must be hydraulically driven by a 15kW engine producing a line pull of 2 ton.		
A9.2.2.2 Only surface hung rollers will be acceptable for this tender.		
A9.2.2.3 The rate is to include for operators and assistants, transport, fuel, buckets and all other ancillary equipment.		
A9.2.3 High pressure jet machines		
A9.2.3.1 Must be capable of providing a jetting pressure of at least 150 bar at a flow rate of at least 220 litres per minute, measured at the pump. A9.2.3.2 The jetting hose shall be a minimum of 19mm nominal diameter with a minimum optional length of 120 meters at all times.		
A9.2.3.3 The jetting hose shall be wound onto a hose reel, which is power driven in both the clockwise and anti-clockwise directions.		

A9.2.3.4 All units shall be equipped with a water tank that must be filled through an approved pressure break, which shall be a minimum of twice the feed diameter above the spill over level.		
A9.2.3.5 The rate for the high pressure jet machines will include for all drivers, operators and assistants, transport, fuel, root cutting equipment and a full range of nozzles, including forward blasters for the breaking of blockages.		
A9.2.4 CCTV inspection equipment		
A9.2.4.1 Must have a minimum of a monochrome monitor available to facilitate the checking of underground reticulation.		
A9.2.4.2 Illumination must be sufficient to detect cracks and other structural defects.		
A9.2.4.3 The camera is to be mounted in such a manner as to transport the camera within 10% of the centre of the pipe or culvert.		
A9.2.4.4 CCTV inspection equipment is to be available to facilitate the checking of underground reticulation as and when required by the Manager of Roads and Stormwater or his Representative.		
A9.2.5 Pumps (for over pumping)		
A9.2.5.1 Must be vortex flow type pumps, with 75mm branch, flow rate of 2500 l/m, 8Kw power output, 32mm solid handling, 9.1m max lift, 35m head, auto prime and to be capable of dry running.		
A9.2.5.2 All equipment will be operated by as many skilled operatives as considered necessary by the Tenderer. At least one skilled operative shall hold a current vehicle driving licence, suitable for the vehicle being used. The use of all the above mentioned equipment will be at the discretion of the Manager of Roads and Stormwater or his Representative.		

A10 DISPOSAL OF MATERIAL		
A10.1 Tipping may only take place at the approved sites as indicated by the Head: Technical Services of each town. Material containing faecal or health risk matter removed from pipes box culverts, catch pits, etc., shall be tipped only at an approved disposal site. The above will apply for combination units to the liquid content in their debris tanks. In the case of Tenderers double handling the material, any of the other approved sites may be used providing it is acceptable to the management of the disposal site.		
A10.2 For the Bill of rates, tipping costs will be borne by the Hessequa Municipality for the duration of the contract, providing that proof of tipping (tipping slips, receipts, etc.) is provided with the certificate of payment. Tipping data must be filled in on daily sheets for checking purposes.		
A10.3 All material taken from catch pits and the underground stormwater reticulation is to be completely removed daily and carted to an approved area within the specified disposal sites where the material may be tipped in accordance with orderly procedures stipulated by the controlling authority.		
A10.4 No material may be left on site overnight, unless authorized otherwise by the Manager of Roads and Stormwater or his Representative.		
A10.5 To avoid confusion with other municipal departments, only white or cream coloured rice bags may be used for the storage of material removed by hand. This only applies in cases where the material is not loaded directly onto a vehicle. Where bags have been used, they must be removed at the end of the work day.		
A10.6 Tenderers who are found illegally dumping material, will be fined and could be removed from the contract. Further, Tenderers found leaving material on site without permission, will be removed from the contract.		
A11 WATCHING AND LIGHTING The Tenderer shall provide and maintain at his own cost all lights, guards, fencing and watching necessary for the safety and convenience of the public. Unattended open manholes and/or catch pits are to be protected by at least three cones and the opening is to be covered with an extruded mesh grid or similar		
A12 DEFECTS The Tenderer shall only notify the Manager of Roads and Stormwater or his Representative immediately of any major defects in the reticulation which he may discover. All defects to the reticulation system are to be noted on daily sheets and the Manager of Roads and Stormwater or his Representative shall be advised in writing on a weekly basis of such defects.		

A13 PLUGGING OF PIPES No pipes shall be plugged by the Tenderer without the express written permission of the Manager of Roads and Stormwater or his Representative, who may impose special conditions regarding precautions to be taken in any event the Tenderer shall be responsible for ensuring that the backing up of water does not cause flooding or nuisance.		
A14 PAYMENT AND CERTIFICATES		
A14.1 Standard payment terms Payments will be made within 30 days after receipt of invoices.		
A14.4 When a certificate of payment is due or required, as the case may be, the Tenderer shall forward a letter to the Manager of Roads and Stormwater or his Representative stating the amount of money claimed together with a detailed statement (including daily sheets) showing how this amount is made up. Where applicable, this statement is to include:		
A14.5 Occupation and time of all equipment as listed in the Schedule.		
A14.6 Date before and after photographs of the works.		
A14.7 A written instruction with drawings from the Manager of Roads and Stormwater or his Representative.		
A14.8 This statement will be checked by the Manager of Roads and Stormwater or his Representative. The Contractor must allow 5 working days for payment certificates to be checked from the time received by the official, to the time it is sent for payment. In the event of errors, a further 5 working days will be required for checking.		
A14.9 The Tenderer is to afford all assistance to the Manager of Roads and Stormwater or his Representative in checking the claim and is to give any further information required.		
A15 GENERAL Tenderers are to include for root cutting in their rates for Bills A, B and D.		

A15.1 All plant and equipment shall be maintained in a clean and serviceable condition. Any mechanical breakdown of plant shall receive attention as soon as practicable after occurrence and if repairs cannot be completed within a reasonable time, the faulty equipment shall be removed from the site and replaced by serviceable equipment. For Bill A, B and C, any "Down time" of vehicles and equipment will be to the Tenderer's account. Combination units that break down are to be repaired or replaced within 24 hours. Time loss must be either made up by working longer hours or at weekends as directed by the Manager Roads and Stormwater or his Representative.		
A15.2 Water wastage is not permitted and leaking hoses/equipment must be repaired immediately.		
A15.3 Breakdowns and removal of equipment from site are to be reported to the Manager of Roads and Stormwater or his Representative.		
A15.4 The Contractor is responsible for his own security and it is deemed that it has been allowed for in his rates.		
A15.5 The Manager of Roads and Stormwater or his Representative is to be informed on a daily basis by fax or other reasonable means as to the location of the cleaning teams by 08:00. Weekend work and public holiday work locations to be communicated the day before the break by 08:00. The previous day's "daily sheets" are to be included with the work location information. Reticulation ready for inspection should be noted in the communiqué.		
A15.6 The lip of the cover frame is to be cleaned, and all covers and grids properly seated, before moving to the next catch pit or manhole.		
A15.7 The channel for a minimum of two metres either side of the catch pit is to be cleaned of all sand, vegetation and debris. This is to be done by either suction or sweeping and not by washing with a high pressure jet.		
A15.8 The tenderer is to satisfy himself that all infrastructure has been properly cleaned prior to leaving the site. Failure to do so could result in termination of the contract.		
A15.9 The Tenderer is to provide his supervisory staff with cellular phones or radios for communication purposes. The Tenderer is to be contactable during normal working hours, either by telephone, cell or fax machine.		
A15.10 The Tenderer's form/supervisory agent at any worksite must be aware of the correct procedures to be followed if human remains are found in the course of normal cleaning		

operations. This includes corpses, body parts, infant corpses, etc. The SA Police Service must be notified immediately, and work must be suspended until a Police Officer has viewed the situation and given appropriate instructions.		
A15.11 Where employment of local labour is applicable, contractors are to refer to the Manager Technical Services or his Representative with regard to suitable candidates from the existing data bases within the various sub-councils and the municipality or as required.		
A15.12 All labour employed by the Tenderer must be paid at least the minimum wage as required by law. Failure to comply with the law will lead to the termination of the contract.		

Failure to provide the information as stated above, may result in your tender being declared non-responsive.

DECLARATION,

I, THE UNDERSIGNED (NAME)

CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT. I ACCEPT THAT THE MUNICIPALITY MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

AUTHORISED SIGNATURE:

NAME:

CAPACITY: DATE:

Initials of Service Provider's Authority: