

HESSEQUA MUNICIPALITY

HES-TECH 09/2122

**APPOINTMENT OF AD-HOC CIVIL ENGINEERING CONTRACTORS FOR A
PERIOD OF THREE (3) YEARS**

PART C3: SCOPE OF WORKS

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PART C3.1: DESCRIPTION OF WORKS

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C3.1.1 Overview of the Works

C3.1.1.1 TENDER DESCRIPTION

INTRODUCTION

The description of the project contained in this Part C3.1 is merely an outline of the Contract Works and shall not limit the work to be carried out by the Contractor under this Contract.

The Employer's objective is to appoint contractors to assist the rehabilitation and upgrading works in Hessequa municipal area.

C3.1 DESCRIPTION OF THE WORKS

C3.1.1 General Scope of Work

Hessequa Municipality intends to appoint ad-hoc Civil Engineering Contractors for a period of three (3) years from date of appointment for the execution of civil works. Projects value will be dependent on the approval of the three-year capital budget and will the actual work be discussed with the successful bidders prior to commencement.

It is important to note that the definition of ad-hoc contracts is defined as '*as and when needed*' and that it does not constitute continuous work. The scope of the three (3) year contracts can then be understood as work issued by the Hessequa Municipality, as per the tender regulations, as and when required.

The Hessequa Municipality does not guarantee continuous non-stop work for a three (3) year duration.

C3.1.1.1 General

The work to be executed under this contract consists of the following:

- Establishment on site by the Contractor
- The supply of labour, tools, equipment, materials and supervision to complete the work
- Setting out of the Works
- Accommodation of vehicular traffic and pedestrians during all construction work
- Maintenance of the works during and after construction.

C3.2.1 General Description (Works Project)

A general description for each individual Works Project will be provided under this heading. The road length, width, pipe length, fittings, details of lanes and shoulders and road junctions to be rehabilitated and /or resurfaced will be provided.

All works included in the Works Project will be described prior to the commencement of any works. The limits of the Works Project will be indicated to the successful bidders.

The location of the works envisaged for the Works Project will be shown on a Site Plan bound into C5 of the Works Project document. Please note that this contract is for work covered in all the towns of Hessequa. All works are subjected to the approval of council funding

C3.3.1 Detailed Extent of Work (Work Project)

C3.3.1.1 General

The work to be executed under each Works Project consists of the items as listed in under the Bill of Quantity and will be discussed Upon appoint appointment with each successful bidder appointed under this tender.

C3.3.1.2 Extent of the Works

This contract includes:

1. Preliminary and general

- Health and safety
- Temporary traffic control facilities
- Dayworks

2. Site clearance

- Clearing and grubbing
- Re-instatement of road surfaces
- Surface finishing

3. Roadworks

- Segmented paving
- Subbase
- Basecourse

4. Gabions and retaining walls

5. Building work

6. Stormwater drainage and service ducts

- Bedding
- Pipework
- Ducts
- Manholes, catchpits and headwalls

7. Sewer pipe networks

- Bedding
- Pipework

- Manholes
- Erf connections

8. Water pipe networks

- Bedding
- Pipework
- Special fittings
- Valves, fire hydrants, water meter chambers, etc.

All work is to be executed as per the South African Bureau of Standards, Standard Specification (SABS 1200). Under no circumstances will sub-standard work be accepted for payment or deemed as complete.

C3.3.1.3 Location of the works and access

The sites are in the Hessequa Municipal area, which include the following towns:

- Albertinia
- Gouritsmond
- Melkhoutfontein
- Stilbaai
- Jongensfontein
- Riversdale (including Kwanokuthula)
- Heidelberg
- Witsand
- Slangrivier

C3.3.1.4 Co-operation and attendance

The successful completion of the works of this nature requires the full co-operation of all concerned. In order to assist in the administration and co-ordination of the various portions of the works it will be required of all contractors to attend liaison meetings when required. The technical interfacing and co-ordination of activities will be discussed at these meetings.

C3.3.1.5 Sequence of the works

The contractor shall arrange his programme in such a manner that the work is completed from one side. He shall therefore complete his trench excavations, pipelaying and backfilling in one area before commencing with trench excavations in an adjacent area.

C3.3.1.6 Neatness of the site

The contractor shall on a day to day basis, keep the area of the works in a condition acceptable to the Project Management Team.

C3.3.1.7 Accommodation of traffic on public roads occupied by the contractor

All roads adjacent to the construction areas will be used by public traffic. The contractor will initiate such process as to make the roads safe for public use.

C3.3.1.8 Testing, completion, commissioning and correction of defects

The site will be taken over by the employer as a whole only once all work in that phase is completed and tested according to the SANS 1200 specification for construction testing.

C3.3.1.9 Quantities

The work that is to be carried out under each Works Project is as provided for in the Bill(s) / Schedule(s) of quantities. However, if during the course of construction conditions are found to differ from those anticipated, the Employer reserves the right to modify the scope of the work to suit the prevailing conditions and circumstances. Variations introduced in this manner will be measured and paid for at the rates tendered for appropriate items listed elsewhere in the schedule of quantities or in the absence of such rates, as extra work.

C3.3.1.10 Boundaries of the site

The site of the works shall consist of the entire road reserve and interchanges, construction camp, any storage area on the site which the Contractor may require in addition to the area required for construction of the upgrading / maintenance works.

C3.3.1.11 Occupation of the site

Access to the site of the works will be given to the Contractor on the Engineer's instruction to commence executing the Works.

The site of the works is on public roads and within existing communities, which will remain in use during the course of the work. No road may be fully closed, and traffic shall be accommodated as far as is practically possible.

Where the site of the works is on public roads, which will remain in use during the course of the work, every effort shall be made by the Contractor to minimize the disruption to existing pedestrian and traffic flows during construction. No road may be closed without the express permission of the Technical Department and traffic shall be accommodated as specified or shown on drawings.

Where existing roads are used, they shall be protected from damage by extraordinary traffic. The Contractor shall immediately repair any damage arising out of his acts or omissions by him to fences, gateways, drains or to any other structure during the execution of the Contract and shall leave everything in the same state as it was found by him.

The Contractor shall afford all reasonable pedestrian and/or vehicular access to all owners or occupiers of properties abutting the works to the satisfaction of the Technical Department.

Workmen employed by the Contractor will not be permitted on private property abutting the works during its progress unless such presence is required to successfully complete the work and permission from the owner/occupier has been granted. Written letters to be signed by all affected parties once remedial works on private properties are completed.

C3.3.1.12 Work in confined areas

It will be necessary for the Contractor to work within confined and restricted areas. In certain places, the width of the fill material and pavement layers may decrease to zero and the working space may be confined. The method of construction in these confined areas largely depends on

the contractor's constructional plant.

Regardless, measurement and payment will be in accordance with the specified cross-sections and dimensions only, irrespective of the method used for achieving these cross-sections and dimensions. It is deemed that the rates tendered in the Pricing Schedule / Priced Bill / Schedule of Quantities include full compensation for all special equipment and construction methods and for all difficulties encountered when working in confined areas and narrow widths, and at or around obstructions. **No additional payment will be made nor will any claim for payment be considered for work done in such confined areas, despite indications to the contrary in the Standard Specifications.**

C3.3.2 CONSTRUCTION TIME PERIOD

The tender is for a period of three years and each project construction period to be discussed and confirmed by the successful bidders prior to commencement.

C3.3.2.1 Construction work program

The Contractor shall take note of various factors contained in these specifications, which will have a significant influence on the compilation of the construction work program. Prominent items are those specified in clause B1215 (anticipated days lost due to climatic conditions) of Section 1200 and Section 1500 of the project specifications dealing with limitations regarding construction areas, time allowed for construction activities, temporary installations of road signs and traffic-control facilities and time restrictions regarding construction work. Detailed directives for compiling the program of work are given in clause B1204 of Section 1200 of the Project Specifications.

C3.3.3 CONTRACTOR'S CAMP SITE, SERVICES AND SITE FACILITIES

The Contractor will be permitted to use the area on or near the site for the establishment of a camp site and office accommodation for his construction personnel. The choice of sites for the establishment of camps is subject to the approval of the Employer.

The Contractor must make adequate provision in his tender for all negotiations and procurement of water for construction site activities and all related costs will be deemed to be included in his tendered rates.

No direct payment will be made for the provision of electrical and other services. The cost thereof shall be deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.

C3.3.4 SITE FACILITIES REQUIRED

No specific facilities are required on the site for the Engineer or his representative.

C3.3.5 FEATURES REQUIRING SPECIAL ATTENTION

C3.3.5.1 Wayleaves, permissions and permits

The Contractor shall be responsible for obtaining all of the necessary wayleaves, permissions or permits applicable to working near any existing services or other infrastructure on Site, and shall ensure that any wayleaves, permissions or permits obtained by the Employer's Agent prior to the award of the contract are transferred into the Contractor's name.

The Contractor shall abide by any conditions imposed by such wayleaves, permissions or permits.

The cost of repairing any damage to existing services, due to miscalculations or negligence on the part of the Contractor shall be borne by the Contractor.

C3.3.5.2 Health and Safety Plan

In addition to subclause 5.7 of SANS 1200 A, and the Occupational Health and Safety Specification AO, the Contractor shall comply with the Occupational Health and Safety Act (Act No. 85 of 1993) (OHS Act) and in particular its Construction Regulations, 2003.

C3.3.5.3 Standard of Materials, Workmanship, Testing and Performance

The attention of Tenderers is particularly drawn to the high standard of materials, workmanship, testing and performance applicable to his Contract as a whole and he shall convey this requirement to his proposed Sub-Contractors.

The Contractor will carry out control testing of materials and workmanship as required in terms of the specifications. Where necessary, the Engineer may carry out acceptance control testing. The Employer will not pay claims or grant extension of time for delays to the works resulting from the awaiting of test results. Testing as required by the Engineer will be effected as promptly as possible but it is in the

Contractors own interest to submit material samples and other components of workmanship for testing in good time to assist in avoiding or minimizing delays.

C3.3.5.4 Weatherproof Protection for Workers

All staff required to continue working during rain shall be provided with oilskins and rubber knee boots, or other approved protective clothing and footwear.

C3.3.5.5 Night Work and Work on Public Holidays

Where the Contractor requires staff to work overtime, he shall make the necessary arrangements with the Engineer and obtain written approval from the Engineer. The Contractor shall bear the cost of his overtime work.

4.1 Other Contractors

The Contractor's attention is drawn to the fact that there will be other contractors working on the Site of the Works. In accordance with Clause 4.8 of the General Conditions of Contract, the Contractor shall note and make due allowance for reasonable access to and for the adjacent operations of these other contractors on the site of the works.

4.2 Maintenance

The Contractor shall be responsible for the maintenance of all temporary traffic control facilities provided for the purposes of traffic accommodation through the sites of the various parts of the Works, and for the maintenance of the Works during the Defects Liability Period of 12 months from the date of completion of the Works in accordance with the provisions of the General Conditions of Contract.

5. ACCOMMODATION OF TRAFFIC

Closure of traffic lane(s) adjacent to the construction work area will only be permitted during specified off-peak periods. The Contractor shall plan his operations to ensure that the closing and opening of lanes conform to the time periods specified below, or as instructed or approved by the Engineer.

- (a) The safety and convenience of the travelling public is to be considered of

utmost importance and every effort must be made to ensure that all temporary road signs, cones, flagmen and speed controls are maintained and effective, and that courtesy is extended to the public at all times.

- (b) It is important that the traffic accommodation requirements described in these specifications are adhered to and that all installations meet with the approval of the Traffic Manager of the George Municipality. Liaison has been set up with the traffic authorities by the Engineer and the traffic accommodation described below has been approved by them in principle.
- (c) Only one traffic lane per direction may be closed to traffic at a time. Where two lanes are required to be closed on a three-lane multilane directional roadway to create a work area, one lane shall be dropped at a time with a suitable stabilizing area between the two-lane drop as shown on the drawings. Closure of a traffic lane or partial lane will only be permitted once the traffic control facilities and temporary traffic diversions / deviations have been approved.

Closure of traffic lanes for work areas will only be permitted during non-peak time periods, which is Monday to Friday inclusive 09:00 to 15:30. All lanes must be open to traffic at the following times:

- AM Peak: Monday to Friday inclusive: 06:00 to 09:00.
- PM Peak: Monday to Friday inclusive: 15:30 to 18:30.

There are no lane closure time restrictions over weekends.

Requirements for safety and accommodation of traffic as set out in the Project Specifications shall be strictly enforced.

The Contractor's tendered rates for the relevant items in the schedule of quantities shall include full compensation for all possible additional costs which may arise from this, and no claims for extra payment due to inconvenience as a result of the *modus operandi* will be considered.

- (d) Wherever practicable, the Contractor shall maintain pedestrian access across the existing roads and at-grade pedestrian crossing(s) on existing roads. The Contractor shall erect temporary pedestrian fencing to re-route pedestrians to cross the existing roads at suitable locations during the rehabilitation / resurfacing operations.
- (e) The travelling public have the right of way on public roads, and the Contractor shall make use of approved methods to control the movement of his equipment and vehicles so as not to constitute a hazard on the road.
- (f) Failure to maintain road signs, warning signs or flicker lights, etc., in good condition shall constitute ample reason for the Engineer to bring the works to a stop until the road signs, etc., have been repaired to his satisfaction.
- (g) The Contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the requirements of this document, the South African Road Traffic Signs Manual (SARTSM) and the CSRA/CUTA Road Signs Note No. 13, Roadworks.
- (h) The Contractor shall submit proposals in connection with all signs and accommodation of traffic to the Engineer for approval.

6. ENVIRONMENTAL REQUIREMENTS

In accordance with the provisions of Clause 8.1 of the General Conditions of Contract, the Contractor shall use every reasonable means to ensure that all operations necessary for the execution of the Works shall be carried out in such a manner as not to cause unnecessary noise or pollution, to interfere unnecessarily or improperly with, or encroach upon the use of public services, or access to, use and occupation of public or private roads and footpaths or properties.

Storage of or stockpiling of materials within the road reserve except at the designated camp site will not be permitted without the written consent of the Engineer. Excess material from demolition or excavation shall only be spoiled at sites that have been approved by the Engineer.

The Contractor shall observe all pertinent legislation with regard to safety on the site of the works. In particular the Contractor shall erect sufficient effective screening around his work area to protect pedestrians, vehicles, property and other facilities from damage during the upgrading / cleaning / rehabilitation process. The Contractor shall ensure that the extent of the screening is adequate as he shall be solely.

responsible for all claims for damage or injury caused by his upgrading / cleaning / rehabilitation work.

The Contractor is required to carry out work adjacent to the residential neighborhoods and working environment of existing businesses in the area. The Contractor's operations shall be organized in such a manner as to avoid (whenever possible) or minimize disruption to these neighborhoods and businesses.

Details of the environmental requirements for the Works project will be provided once successful bidders has been appointed.

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: