

FOSKOR (PTY) LIMITED

SCOPE OF REQUIREMENTS

for a 36-month contract to carry out on behalf of Foskor
any ROAD MAINTENANCE AND REPAIR WORK as
requested from time-to-time

1. INTRODUCTION

Foskor (Pty) Ltd. is an opencast mining and beneficiation operation situated in Phalaborwa. The core business of the Phalaborwa operation is the mining and beneficiation of phosphate rock. (The Foskor operation situated in Richards Bay is primarily a producer of phosphoric acid, phosphate based fertilizers and lower volumes of sulphuric acid)

As part of its day-to-day upkeep and repair of its roads, Foskor requires the services of a service provider with sufficient and the necessary infrastructure, equipment, vehicles, personnel, experience and ability to repair and maintain its bitumen surfaced roads and signage.

2. SCOPE

This scope covers the minimum specifications and requirements to provide the service of ROAD MAINTENANCE AND REPAIR WORK as requested by Foskor from time-to-time.

3. MINIMUM PRE BID QUALIFICATION CRITERIA AND -REQUIREMENTS

The bidder/supplier (Company) must be a recognized service provider for the repair and maintenance of bitumen roads and road signage within the municipal-, mining-, construction- and industrial industries and must comply with the following mandatory pre-qualification criteria and -requirements before any bid will be considered for technical- and/or commercial evaluation and assessment.

Provide the following supporting documents and information:

3.1. Confirm on an official company letterhead or -brochure to:

- a) Be a recognised service provider for the repair and maintenance of bitumen roads and road signage.
(Provide company details)
- b) Have previous experience in the repair- and maintenance of bitumen roads and road signage (Provide details of previous service contracts or orders/projects successfully completed)
- c) Have more than 90% of tools, equipment, spares and consumables locally (Within 20km radius of Foskor mine) available to service and maintain Foskor's bitumen roads and road signage.
(Provide details of vehicles, tools, equipment, spares, consumables, stock, stock value, supply chain procedures, typical service delivery times, etc)
- d) Have in its employ a fully trained, competent and qualified bitumen road maintenance- and support team that will be on-site within 60 minutes after receiving and official request for assistance.
(Provide details on number of teams, vehicles, response times, etc)

3.2. CIPC certificate (Companies and Intellectual Property Commission) as a service provider in the civil maintenance and construction industry.

3.3. Registration on the CSD (Central Supplier Database) of National Treasury.

3.4. SARS (South African Revenue Services) letter of good standing

- 3.5. Proof of business address in terms of FICA (Financial Intelligence Centre Act 38 of 2001), eg water and lights account.
- 3.6. Provide a valid CIDB certificate for Grade 2CE.

4. CONDITIONS

Before any official order for the above-mentioned ROAD MAINTENANCE AND REPAIR WORK CONTRACT is placed, the service provider shall demonstrate his ability to manage this contract and to carry out any of the required tasks.

Any additional specifications, terms, conditions or guarantees not mentioned in this scope may be brought to Foscods attention during the site meeting or on the official tender.

5. MINIMUM SPECIFICATIONS, REQUIREMENTS AND PROCEDURES The successful service provider is expected to:

5.1. Carry out any minor maintenance and repair work to bitumen roads and road signage, including:

- a) The supply and transport to site all labour, skill and supervision.
- b) The supply and deliver to site all required materials, consumables, equipment, tools and every item of expense in order for the work to be completed successfully.
- c) All materials and components used shall at least be SANS quality approved unless otherwise stated in this document.
- d) Materials used for maintenance and repair work to roads and road signage are of normal type and available in the Republic of South Africa for a period of at least 10 years.
- e) If requested or applicable to the task, provide a road maintenance and repair procedure manual/document
- f) Removal all building rubble as a result of repairs, construction, demolition and/or work activities.
- g) Leave a construction or maintenance site in a clean condition and safe condition.
- h) At its own discretion, Foscors may initiate inspection HOLD-points on work being done.

5.2. Follow the prescribed work procedure:

- a) On request by a Foscors area supervisor (Verbal request or works order) for a maintenance task the service provider is to compile a "road maintenance and repair quotation" in accordance with the requirements of this document. Standard quotation form will be provided.
 - b) Requirements/specifications of the work to be done must be obtained from the originator of the request.
 - c) Compile a "road maintenance and repair quotation" and:
 - i. Present the "road maintenance repair quotation" for approval to the requesting departmental engineer or superintendent, section supervisor or their appointed representative to verify that the commercial rates/prices are correct.
 - ii. As described elsewhere in this document, cost will be calculated by the sum of quoted rates, cost of material (plus 10%) plus labour.
 - iii. Present the "minor works quotation" for approval by the requesting area supervisor, section engineer or section superintendent to verify that the work specifications, requirements and volumes of the requested task are correct. Ensure that a Foscors cost code is provided.
 - iv. Present the "minor works quotation" for final approval to the departmental manager of the requesting area/section for final approval.
 - d) If not already done, the requesting section will provide the service provider with a Foscors works order.
 - e) Before any work commences the work order must be signed-on by the area responsible supervisor or the originator of the request and again signed-off on completion of the work.
- 0 Work to be carried out in accordance with Foscors's standard procedures.
- g) A copy of the original signed-off works order must be handed over to the originator in order to finalise on the Foscors electronic maintenance system (JDE).
 - h) Service providers invoice must be submitted together with the original work order, the original "minor works quotation" and original copies of invoices obtained for all material procured. The invoice must be signed by the originator together with the originators Foscors cost code. The official Foscors service order number and the work order or job notification number must be noted on the invoice.

- i) The service provider is responsible to deliver all signed invoices to the Foscok Creditors department for monthly payment.
- 5.3. Carry out maintenance and repair work within 24 hours after notification.
- 5.4. Carry out "breakdown" maintenance and repair work within 60 minutes after notification.
- 5.5. Carry out "breakdown" and "urgent" maintenance and repair work after hours and over weekends or public holidays.
- 6. QUALITY ASSURANCE

Quality assurance of materials and construction is the responsibility of the service provider. Omission from any prescribed or agreed upon procedure or service that could have an adverse effect on the quality of materials and construction will be brought to the attention of the service provider. Failure by the service provider to correct any reported defects or to show objective evidence of acceptable conformance to requirements will result in immediate termination of contract.

7. LEGISLATIVE- AND REGULATORY REQUIREMENTS

- 7.1. The successful or appointed service provider shall comply with:
 - a) The Mines Health and Safety Act with Regulations (Latest revision)
 - b) The National Road Traffic Act with Regulations (Latest revision)
 - c) All applicable national and international legislative requirements and regulations.
 - d) All Foscok (Pty) Ltd. safety, health, quality and environmental procedures. (Available on request)
 - e) All Foscok procedures and policies applicable to the successful application of the contract. (Available on request)
- 7.2. The successful or appointed service provider shall comply with the latest revisions of the following Foscok COP's (Compendium of Procedures) (COP's, policies and procedures are available on request):
 - a) COP 1 Risks and opportunities management
 - b) COP 8 Mandatory COP for mitigation and management of Covid-19
 - c) COP 17 Mobile, Technical and Process Training
 - d) COP 18 Permit to work
 - e) COP 25 Control of externally provided products and services o COP 41 Housekeeping and workplace organisation
 - g) COP 43 Mandatory COP for occupational program on thermal stress
 - h) COP 52 Machine guarding
 - i) COP 53 Lock Out System and Usage
 - j) COP 58 Hazardous chemical and substance control
 - k) COP 59 Mandatory COP for the operation of Trackless Mobile Machinery
 - l) COP 60 Portable electrical equipment
 - m) COP 65 Personal protective equipment
 - n) COP 70 Storage of petroleum products and other hazardous materials o) COP 86 Mandatory COP for occupational health program on noise
 - p) COP 99 Mandatory COP for risk-based fatigue management
 - q) Any other Foscok safety, health, quality and environmental policies and procedures deemed applicable by a Foscok representative.
 - r) All other Foscok procedures and policies applicable to the successful application of this contract.
- 7.3. The successful or appointed service provider shall comply with the latest revisions of the following Foscok CTD's (Critical task Descriptions) (CTD's are available on request):
 - a) 2410-20 Light Delivery Vehicle Operation
 - b) 2410-01 Use of Portable Electrical Equipment
 - c) Any other Foscok Critical Task Descriptions and/or Safe Working Procedure deemed applicable by a Foscok representative.
- 7.4. The successful or appointed service provider shall ensure that all his/her on-site employees have been authorised by a Foscok regulation 2.13.1 appointee to:
 - a) Perform job specific hazard identification and risk assessments (Foscok Annexure 1.3)

- b) Perform lockout procedures (Foskor Annexure 53.2)
 - c) Operate trackless mobile machinery contractor employees (Foskor Annexure 59.7B)
 - d) Any other Foskor activity requiring authorisation as deemed applicable by a Foskor representative.
- 7.5. In order to access the Foskor site in the execution of this contract, the service provider shall ensure that his/her service vehicle (Own vehicle) is:
- a) Roadworthy and complies with all the requirements for National Road Traffic Act, 1996.
 - b) Fitted with seatbelts in accordance with the National Road Traffic Act, Regulation 213. (Seatbelt construction and anchorage must comply with SANS standards 1430 and 10168)
 - c) Issued with a valid illumination certificate.
 - d) In accordance with the requirements of the National Road Traffic Act, fitted with a set (2) of emergency warning triangles that are easily accessible to the driver
 - e) Fitted with a 9.0kg charge, SANS approved, dry powder, 40% Mono Ammonium Phosphate, 45% Ammonium Sulphate and 0% Calcium Carbonate based fire extinguisher with scrubber valve behind gauge. Fire rating 3A:3B.
- 7.6. Before entering and operating a service vehicle (Own vehicle) on the Foskor site, the appointed service provider shall:
- a) Ensure that:
 - i. His driver/s are in possession of a valid national drivers licence for the specific class of vehicle, has been tested by the Foskor mobile equipment training centre and authorised by a Foskor MHSA (Mines Health and Safety Act) regulation 2.13.1 appointee for the class of vehicle to be used on site.
 - b) The appointed service provider shall, before entering and operating a vehicle on the Foskor premises:
 - i. Obtain permission from the Foskor Safety & Security manager to operate his nominated service vehicle/s on the Foskor site. (Forms will be provided)
 - ii. Obtain a certificate of fitness from the Foskor Light Vehicle maintenance workshop supervisor or appointed Foskor inspector for his nominated service vehicle/s. Inspections conducted daily between 08:00 and 08:30 and between 13:30 and 14:00 (Excl Fridays) at the Light Vehicle Maintenance workshop.
 - iii. Submit the above permission and COF in at the main security office for issue of a vehicle access disk.
 - c) Ensure that his service vehicles have been inspected (Daily) in accordance with the Foskor standard (COP 59) to ensure that they are safe and fit for use. (Forms will be provided)
 - d) See Foskor COP 59, Trackless Mobile Machinery for details.
- 7.7. Before entering and operating/working on the Foskor site the appointed service provider shall ensure that his driver/workmen are:
- a) Briefed on the required task and have been informed of any abnormal conditions/situations.
 - b) Physically, emotionally and mentally fit to perform their duty.
 - c) Issued with the necessary PPE (Personal Protective Equipment) to safely operate his service vehicles and perform the duty of maintaining, servicing, inspecting and testing mobile equipment fire suppression systems.
 - d) Before commencement of work:
 - i. All tools and equipment shall have been inspected and tested to be in a good and safe working order.
 - ii. All workmen have participated in the completion of a standard Foskor site risk assessment (Commonly known as a HIRA or Hazard Identification and Risk Assessment) and taken appropriate actions to mitigate any identified hazards.
- 7.8. Before entering and operating/working on the Foskor site the appointed service provider shall ensure that his portable electrical equipment has been tested and declared safe to use by the Foskor electrical services workshop.
- 7.9. After completion of any road repair and maintenance work, the service provider shall ensure that all rubbish and debris has been removed, the site is left in a clean and tidy condition and that all hazardous materials are disposed of in accordance with
- 7.10. Although every effort has been made to ensure that the information contained within this document is correct, it remains the responsibility of the bidder to verify actual status and site conditions. (A site visit can be arranged)

8. PERMIT TO WORK

Before any on-site work under this contract may commence, the appointed or successful service provider shall obtain from Foskor a PERMIT TO WORK. The following guidelines are provided in order to assist the appointed service provider in obtaining a PERMIT TO WORK. (See Foskor COP 28, Permit to work and COP 25, Service provider control for details):

- 8.1. The PERMIT TO WORK can be obtained from- and on completion returned to the Legal Administrator, Foskop Safety department.
- 8.2. Obtain a contract or order number from the Foskop procurement department.
- 8.3. Appoint a subordinate manager in accordance with Regulation 2.6.1 and an on-site supervisor in accordance with Regulation 2.9.2 of the Mines Health and Safety Act.
 - a) The appointed subordinate manager and -supervisor shall be required to write and pass the Foskop 2.6.1 and 2.9.2 legal examinations within 30 days after being awarded this contract.
 - b) Attend a hour long legal exam briefing any Thursday between 08:00 and 09:00 at the Security training hall.
 - c) Write legal examination any Friday between 07:30 and 10:30 at the Security training hall. (Please book)
- 8.4. Appoint an on-site SHE-Rep in accordance with section 29(1) of the MHSA to assist the Regulation 2.6.1 and 2.9.2 in the daily on-site management of health, safety and environmental issues.
 - a) The designated SHE Rep must have the ability to read, write and express him/herself.
 - b) The appointed SHE-Rep shall be required to attend a five day SHE-Rep training course within 30 days after being awarded this contract (Training free of charge). Make booking on 015 789 2531
 - c) A pre-requisite for attending the SHE-Rep training course is successful completion of Basic Health & Safety Principals- and HIRA training. (See item 7.8.a below)
 - d) See Foskop's COP 5 Health and Safety Representatives for details.
- 8.5. Provide a name list, including ID numbers, residential and postal addresses and telephone numbers of all of the appointed service providers' on-site employees.
- 8.6. All of the appointed service providers' on-site employees shall undergo a full medical examination at the Foskop onsite Clinix Clinic. The clinic can be contacted at 015 789 2427 for an appointment.

(NOTE: All NEW- and Employees LEAVING the service of the appointed service provider must undergo an entry or exit medical examination)
- 8.7. The appointed service providers' designated on-site drivers shall receive competence testing and authorisation to operate vehicles on the Foskop site (See item 6.4.c under the heading LEGISLATIVE- AND REGULATORY REQUIREMENTS).
- 8.8. All of the appointed service providers' employees shall receive/have received training in:
 - a) - First aid level 1 (Provide own training)
 - Basic Health & Safety Principals (Provide own training)
 - HIRA (Provide own training)
 - Basic firefighting. (Provide own- or receive Foskop training, contact 015 789 2531 to book)
 - Lock out. (Provide own- or receive Foskop training, contact 015 789 2531 to book)
 - b) All training not provided by Foskop must be verified by the Foskop training superintendent Mr. Johan Fouche. Please contact him on 015 7789 2525 to make an appointment or alternatively email proof of training and certificates to iohanfo@foskor.co.za to confirm compliance before requesting his approval on the PERMIT TO WORK.
- 8.9. All of the appointed service providers' on-site employees shall receive the basic Foskop site induction training at the Foskop Security office.
- 8.10. All of the appointed service providers' on-site employees shall receive site specific induction training provided by the Foskop area Regulation 2.6.1 appointee/s.
- 8.11. Compile a BRA (Baseline Risk Assessment) for ALL tasks that will be completed under this contract. BRA to be signed by all service provider employees. Make use of Foskop's BRA document, Annexure 1.2, as contained in COP 1, Foskop Risk Management (Available on request) OR similar compiled document.

A SAFE WORK PROCEDURE for each high risk task must be attached to the BRA and must be included in the PERMIT TO WORK
- 8.12. Attach a detailed SCOPE OF WORK describing the required task and -outcome of this contract.
- 8.13. All Foskop's appointed MHSA Regulation 2.9.2, 2.6.1, 2.13.1 and 3.1 .a managers must undersign/approve the PERMIT TO WORK.
- 8.14. Registration and proof of payment under the Compensation for Occupational Injuries and Diseases Act, no. 130 of 1993. Registration number must be provided.
- 8.15. SARS issued tax clearance certificate.

- 8.16. All relevant documentation and/or evidence of compliance must be attached to the PERMIT TO WORK.
- 8.17. Upon successful completion and approval of the PERMIT TO WORK the security department will issue the appointed service providers' employees with access ID cards valid for 12 months.
- 8.18. Any other documents, certificates or records as requested by a Foscok official deemed necessary to ensure that all safety, legislative and administrative requirements have been met must be attached to the PERMIT TO WORK.
- 8.19. The appointed service provider must allow at least three to ten working days to complete all the PERMIT TO WORK requirements.

9. SAFETY FILE

Before any work may commence, the appointed service provider must, IN CONJUNCTION WITH THE FOSKOR SAFETY DEPARTMENT, compile a SAFETY FILE specifically for THIS contract. Contact the area responsible safety representative, or attend the monthly service providers meeting every 2nd Monday of the month (3rd Monday if 1st or 2nd Monday a public holiday) at 13:30 in the Foscok Plant Training hall)

The SAFETY FILE must always be available for inspection by a Foscok official.

10. EVALUATION CRITERIA AND BID ASSESSMENT

As part of the process to assist with the evaluation of the bidders proposal/quotation and to make an informed decision in the awarding of this tender, the following information is required:

	Points	
MINIMUM POINTS 70	Total points 100	
Company experience - List Five (5) bitumen roads and road signage contracts or similar contracts awarded in the past 5 years.	30	Proof
5 and above years	30	Bidder must provide their client signed and authenticated reference letters (on the Referee's Letterhead with contact details) demonstrating the following: Number of years' delivering the same service
3-4 years	20	
1-2 years	10	
no years' experience	0	
Team members experience – List Five (5) team members with relevant experience in the past 3 years.	20	Proof
3 and above years' experience	20	Bidder to submit CV's of Supervisors and team members to be involved in the Project indicating the level of experience of similar work
1-2 years	10	
Zero experience	0	
3. Technical Capacity and Capability - List all the company asset required for this project.	30	Proof
7 and above requirement	30	Bidding companies are required to demonstrate the following with a confirmation letter on the company letterhead, proof of purchase, & proof of rental Minimum specifications & requirements are listed below: Materials and consumables, PPE and Safety equipment, tools and required equipment, technical support, transport, Labour, Road roller machine
4-6 requirement	20	
1-3 requirement	10	
No requirement met	0	
Lead time	10	

≤1 week	10	Provide contractually binding lead time on company letterhead indicating the time from date of acceptance of conditions and order agreement (accepting order to service onsite)
2 - 3 weeks	5	
4 - 5 weeks	2.5	
≥6 weeks	0	
Safety Compliance-Safety Management Team/legal appointees	10	Proof
All team members trained, authorized, and appointed	10	Provide information of training, authorizations and appointments. Previous appointments are also valid
Team member not trained	0	Provide proposed service contract organogram structure using proposed organogram template Or a SHEQ File
TOTAL POINTS	100	
MINIMUM POINTS	70	

TAKE NOTE: 1) Any bidder/service provider that fails to comply or provide/include/supply requested information and/or copies of all requested supporting certificates and documents will result in a reduced evaluation score that could adversely affect the bidder/service providers chance of being awarded this contract/order.

2) Any * MANDATORY REQUIREMENT item not met will result in immediate rejection of bid/quotation.

3) Any bid/quotation with an evaluation score of less than 80% will not be considered.

11.COMMERCIAL

11.1. This contract will be a "RATES BASED" contract; verification of work conducted is subjected to measurement before acceptance.

THE BIDDER OR SERVICE PROVIDER IS REQUIRED TO SUBMIT A "UNIT PRICE" PER "TASK" ACCORDING TO THE ATTACHED "PRICING SCHEDULE".

NOTE: UNIT PRICE TO INCLUDE COST FOR ALL LABOUR AND SUPERVISION

- ☐ COST FOR ALL ADMINISTRATIVE REQUIREMENTS
- ☐ COST FOR ALL MATERIALS AND CONSUMABLES
- ☐ COST FOR ALL PPE AND SAFETY EQUIPMENT
- ☐ COST FOR ALL TOOLS AND REQUIRED MACHINERY
- ☐ COST FOR EXPERTISE, SKILL AND TECHNICAL SUPPORT
- ☐ COST FOR ALL TRANSPORT AND ACCOMMODATION

THE "PRICING SCHEDULE" WILL BE REGARDED AS THE PRIMARY QUOTATION
(PLEASE COMPLETE IN FULL, OMISSION OF ANY REQUESTED RATES COULD LEAD TO IMMEDIATE REJECTION OF QUOTE / TENDER)

11.2. The bidder is required to submit a "HOURLY LABOURRATE"for road maintenance and repair work to accommodate for any work that has not been addressed in the pricing schedule

NOTE: RATE TO BE INCLUSIVE

OF

COST FOR ALL LABOUR AND SUPERVISION
COST FOR ALL ADMINISTRATIVE REQUIREMENTS

COST FOR ALL MATERIALS AND CONSUMABLES
 COST FOR ALL PPE AND SAFETY EQUIPMENT
 COST FOR ALL TOOLS AND REQUIRED EQUIPMENT
 COST FOR EXPERTISE, SKILL AND TECHNICAL SUPPORT
 COST FOR ALL TRANSPORT AND ACCOMMODATION

	LABOUR RATE PER HOUR		
	NORMAL TIME Monday to Friday 06:30 to 17:00	TIME After hours, excluding Sundays & public holidays	DOUBLE TIME Sundays and Public holidays
Team supervisor			
Semi- and unskilled worker			

11.3. SITE ESTABLISHMENT COST will be calculated at 10% of the sum value of the maintenance quote, where:

■ NORMAL WORKING HOURS 07:00 – 16:00 Minimum R200 and Maximum R500

■ AFTER HOURS 16:00 -07:00 & WEEKENDS Minimum R800 and Maximum R1500

Site establishment cost will form part of the minor works quotation.

- 1 1 .4. Foscors standard labour rates for minor work contracts will apply to determine the cost of any task not covered in any of the pricing schedules. The successful service provider to provide subjective evidence of number of workers and amount of hours worked
- 1 1 .5. Cost for any service by a sub-service provider or third party, any item, material or article of expense not covered in any of the pricing schedules will be calculated at purchase price plus 10% (Ten percent) handling fee. Original quotes, invoices or purchases done to be attached to the road repair and maintenance quotation.
- 1 1 .6. Any other optional support or guarantee not mentioned in this scope may be noted on the official tender.
- 1 1 .7. Quotation prices to be valid for at least the duration of the contract period.
 Provide detail specifications for general price increase after 12 month period. (Example, CPIX + 2%)
- 1 1 .8. Contract period of 36 months from date of acceptance.
- 1 1 .9. If any minimum requirements may alter or be added for whatever reason, it will be brought to the attention of the service provider before the closing date for the submission of tenders.
- 1 1 .1 0. The bidder must indicate in the official tender documents within what time period he will comply with all the requirements of this scope and be in full operation after receiving an official order.
- 11.11. Unit prices or rates to be EXCLUSIVE OF VAT.

12. ENQUIRIES

TECHNICAL:

Karel van der Merwe

Tel: (015) 789 2685

Email: karelv@foskor.co.za

COMMERCIAL:

Mbalenhle Zikalala

Tel: (015) 789 2558

Email: mbalez@foskor.co.za

PRICING SCHEDULE for a 36 month
contract to carry out on behalf of Foskop any
ROAD MAINTENANCE AND REPAIR WORK as
requested from time-to-time"

1. BITUMEN ROAD REPAIRS

1.1	Repair pot-holes: Cut back asphalt to SQUARE hole, remove OLD asphalt and wet / unstable filling, excavate to 150 mm, backfill with pavement material gravel with 1% Portland cement (Colto 39.03(a)) and compact floor to 98% modified ASSHTO density 150 mm thick, apply tack coat using 30% stable grade emulsion, construct NEW evenly compacted surface using continuously graded 60/70 penetration grade bitumen asphalt (Colto 39.03(b)) and 13.2 mm pre-coated aggregate. Maximum thickness 30 mm and not less than 20 mm.		
1.2	Repair edge breaks: Cut back asphalt to even edge, remove OLD asphalt, excavate to 150 mm, backfill with pavement material gravel with 1% Portland cement (Colto 39.03(a)) and compact to 98% modified ASSHTO density 150 mm thick, apply tack coat using 30% stable grade emulsion, construct NEW evenly compacted surface using continuously-graded 60/70 penetration grade bitumen asphalt (Colto 39.03(b)) and 13.2 mm pre-coated aggregate. Maximum thickness 30 mm and not less than 20 mm.		
1.3	Bituminous single seal with slurry (Cape seal): Sweep clean surface, apply tack coat using 30% stable grade emulsion (Colto 39.03(a)), apply single seal 6.7 mm aggregate pre-coated with B8 road grade 80/100 penetration grade bitumen asphalt (Colto B44.01 (i)).		
1.4	Treatment of road surface with diluted bitumen emulsion: Sweep clean surface and apply slurry comprising of 30% bitumen emulsion and fine stone aggregate. (Colto 48.07)		
MINIMUM STANDARDS FOR BITUMEN ROAD SURFACES: SANS 309 Anionic bitumen road emulsions SANS 548 Cationic bitumen road emulsions Standard Specifications for Road Works (Reference: Colto latest Edition)			

2. ROAD TRAFFIC SIGNS and ROAD MARKINGS

2.1	Circular Regularity Road signs:		450 mm	600 mm	900 mm
	Install NEW sign complete with pole	Each			
	Reposition existing sign complete with pole	Each			
	Replace sign on existing pole	Each			
	Replace pole with existing sign	Each			
	Repaint existing pole (Clean, prime and 2 overcoats)	Each			
2.2	STOP Signs:		450 mm	600 mm	900 mm
	Install NEW sign complete with pole	Each			
	Reposition existing sign complete with pole	Each			
	Replace sign on existing pole	Each			
	Replace pole with existing sign	Each			
	Repaint existing pole (Clean, prime and 2 overcoats)	Each			
2.3	Triangular Regularity Road signs:		900 mm		1200 mm
	Install NEW sign complete with pole	Each			
	Reposition existing sign complete with pole	Each			
	Replace sign on existing pole	Each			
	Replace pole with existing sign	Each			
	Repaint existing pole (Clean, prime and 2 overcoats)	Each			

2.4	Rectangular Regularity Road signs:		600 X 450 mm	900 X 675 mm
	Install NEW sign complete with pole	Each		
	Reposition existing sign complete with pole	Each		
	Replace sign on existing pole	Each		
	Replace pole with existing sign	Each		
	Repaint existing pole (Clean, prime and 2 overcoats)	Each		
2.5	Road Markings			
	Stop sign complete with standard wording STOP, 300 mm wide solid diagonal line and 100 mm X 9.0 m longitudinal line (White).			Each
	Yield sign complete with standard triangle, 300 mm wide broken diagonal line and 100 mm X 9.0 m longitudinal line (White).			Each
	Pedestrian crossing (White)			
	Directional arrow - Left and Right (White)			Each
	Directional arrow - Straight (White)			Each

Continuous and broken white line 100 mm wide	m	
Continuous and broken yellow line 100 mm wide	m	
Standard wording "STOP AHEAD" (White)	Each	
Kerbings alternative white – black	m	
Alphabetical and numerical lettering - Letter height 500 mm	Each	
Alphabetical and numerical lettering - Letter height 1000 mm	Each	
Black road marking (To cover OLD white or yellow road markings)		
Parking for disabled person	Each	
No parking (Circle, diagonal line & letter P) Only lines	Each	
No Parking (Circle, diagonal line & letter P) In full/filled colour	Each	

MINIMUM STANDARDS FOR ROAD TRAFFIC SIGNS and ROAD MARKINGS:

All road traffic signs must comply with the minimum requirements as specified in the National Road Traffic Act. (Chapter 9)

Road markings, dimensions, letter styles and symbols shall conform to the requirements laid down in the "SADC Road Traffic Signs Manual - Volume 4"

Pole height 1.8 meter, minimum wall thickness 2 mm and diameter 50 mm.

Minimum dimensions for pole hole 300 X 300 X 500 mm deep. Concrete filling 10 Mpa.

Pole to be cleaned and painted with one undercoat and two overcoats in grey.

Signs to be affixed with at least 2 corrosion resistant bolt-and-nuts with washers. (Min 8 mm)

All road signs to be retro-reflective in accordance with SANS 1519-1 Retro reflective sheeting material.

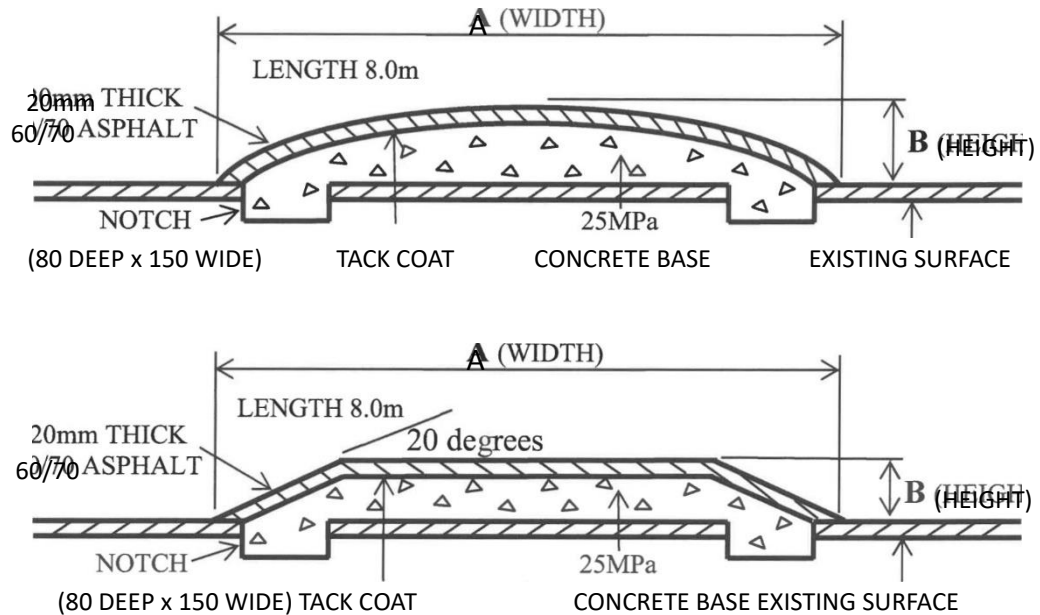
All road signs to be manufactured in accordance with SANS 1519-2 Performance requirements for road signs.

All road marking in accordance with colour specification SANS 1091 National colour standard.

All road marking paint to be SANS quality approved AND comply with SANS 731-1 and 2 Road and runway markings.

3. SPEED HUMPS						Rounded	Flat top
3.1	Width	3.7m	Height (B): 120mm	Length: 8.0m	Each	*R	
3.2	Width	3.7m	Height (B): 100mm	Length: 8.0m	Each		
3.3	Width (A):	2.8m	Height (B): 120mm	Length: 8.0m	Each		
3.4	Width	2.8m	Height (B): 100mm	Length: 8.0m	Each	*R	
3.5	Width (A):	1.8m	Height (B): 100mm	Length: 8.0m	Each	*R	
3.6	Width	1.8m	Height (B): 80mm	Length: 8.0m	Each	*R	
3.7	Width (A):	1.0m	Height (B): 80mm	Length: 8.0m	Each		
3.8	Width (A):	0.5m	Height (B): 80mm	Length: 8.0m	Each		

MINIMUM SPECIFICATION, DESIGN AND REQUIREMENTS FOR SPEED HUMPS:



BITUMEN COVERING

Apply bitumen (Tar) using a tack coat of 30% stable grade emulsion, continuously-graded 60/70 penetration grade bitumen asphalt (Colto 39.03(b)) and 13.2 mm pre-coated aggregate. Maximum thickness 30 mm and not less than 20 mm.

*PRICE OF SPEED HUMP TO BE INCLUSIVE OF:

- Two 600mm triangular regulatory speed hump warning signs complete with pole positioned 50m from the speed hump to warn oncoming traffic.
- ii. Six double sided danger / delineator (Chevron) plates mounted on poles (Each pole two plates). Three evenly spaced poles placed on each side of the speed hump to prevent vehicles leaving the road surface.
- iii. Continuous 100mm wide, 50m long unbroken white line on either side of speed bump.
- iv. Speed hump painted with white chevron marking stripes 600mm wide, spaced 600mm apart.
- v. All road traffic signs and road markings must comply with the minimum standards as specified in item 2 above, ROAD TRAFFIC SIGNS.

4. V•DRAINS

			Replace OLD (Including backfilling)	Install NEW on side of existing bitumen road	Install NEW across existing bitumen road
4.1	1 meter wide, 100mm deep, 100mm thick, 25Mpa concrete				
4.2	0.5 meter wide, 60mm deep, 100mm thick, 25Mpa concrete	m	R		

5. KERBING

			Replace OLD	Install NEW
5.1	1 meter pre-cast kerbing. (Cast-Crete type kerb)	Each		
5.2	In situ cast concrete kerbing 300 mm wide, 100mm thick, 25Mpa concrete			

6. PAVING STONES

			Replace OLD	Re-lay OLD	Install NEW
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6.1	80 mm Interlocking paving stones (Including levelling and sand base)				
6.2	50 X 100 X 200 mm paving stones (Including levelling and of sand base)				
6.3	Removal and disposal of paving bricks, including re-levelling of area with gravel				



SERVICE PROVIDER:					
QUOTED BY:	NAME:		NO.:		
WORK ORDER NO.		SERVICE ORDER NO:			
REQUESTED BY:		DESIGNATION:			
DATE:		COST CODE:			
LOCATION OR ROAD:					
TASK BREAKDOWN As er tendered rates		QUANTITY	RATE	IJOM	AMOUNT
1)					
2)					
3)					
4)					
5)					
SUBTOTAL 1					
MATERIAL SUPPLIED Material consumables and services not rovided for in tender		INVOICE NUMBER	1	QUOTE	AMOUNT
1)					
2)					
SUBTOTAL					
HANDLING FEE (Subtotal + 10%)					
SUBTOTAL 2					
LABOUR (For services not provided for in tender)					
NORMAL		2.0 TIME			
1.5 TIME			NUMBER	HOURS	AMOUNT
Mon to Fri 06:30 to 17:00		After hours			
		Sundays and Public holidas			
Team Supervisor					
Worker semiskilled					
Worker unskilled					
SUBTOTAL 3					

SITE ESTABLISHMENT 10% OF SUBTOTAL 1 + 2 + 3 NORMAL HOURS: Min R200 and Max R500 AFTER HOURS / CALL-OUT: Min R800 and Max RI 500	
TOTAL ROAD REPAIR 1 MAINTENANCE AMOUNT (Task breakdown + Material supplied + Labour + Site Establishment)	

Approved: _____ Pers No. _____ Signature: _____ Date: _____
(Less R10,000 L7 Supervisor)

Approved: _____ Pers No. _____ Signature: _____ Date: _____
(Above R10,000 MML Engineer)

Approved: _____ Pers No. _____ Signature: _____ Date: _____
(Above R30,000 SML Manager)