

<b>Palabora Asset Management Projects</b>	<b>Technical Specification</b>
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Title:	Rehabilitation of road works: repairing of potholes, road slurry seal around Ba-Phalaborwa Municipal area.		
Division:	Transformation		
Area:	Ba-Phalaborwa Municipality		
Project No:			
	Name:	Signature:	Date:
Client: Engineer	Otis Mathebula		
Client: Manager	Nozipho Zitha		
Client Senior Manager:	Abby Ledwaba		
Project Leader:	Meshack Maonye		
Projects Supt.:	Rowan Van Rensburg		
Project Manager:	Michael Mbele		

**1. GENERAL:**

**Content:**

The bidder, being an expert in his field, will accurately evaluate the needs of the contract by visiting the Site/s, studying the relevant drawings and Technical Specifications for this Contract, and tender accordingly.

Should there be any discrepancies or omissions in the tender information supplied, the bidder will immediately inform the Project Leader accordingly. The Project Leader will then rectify the situation and will inform all other bidders to ensure that comparable bids are received.

Claims for extra work, as a result of tender omissions, will not be entertained.

**Materials:**

Materials shall be first class grade, new and shall conform to the relevant specifications as described on the reference drawings and elsewhere in the Specifications.

**Equipment:**

All related equipment and machinery which is used in the contractual discipline to achieve the scope of work must be available from the awarded contractor being the expert in the field. The equipment, machinery and tools must be of a very high quality and in suitable order to achieve top level work expected in each engineering discipline.

**Queries:**

All queries, as well as any requests for deviation from this Technical Specification, shall be directed to the Project Leader.

Name:	Meshack Maonye	Tel No:	0823619654
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Palabora has appointed the following Project Inspector, who will be responsible for construction supervision and safety on the Contract.

<b>Name:</b>	Meshack Maonye	<b>Tel No:</b>	0823619654
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**Contract Clearance Requirements:**

It is a requirement that all contract clearances are obtained prior to commencing work on site. The Project Inspector will assist the Contractor to complete the clearance procedure correctly and without delay.

**2. Scope of work:**

**Overview:**

General routine road maintenance needs to be continuously done on the main roads of the Ba-Phalaborwa Municipality which are under the care of the Projects Department.

**Detail:**

**Maintenance Types**

The routine road maintenance required includes:

1. Pothole category one – 30mm to 40mm wearing only.
2. Pothole category two – 150mm stabilized base layer (3% cement) and 30mm to 40mm wearing course.
3. Pothole category three – 150mm sub base layer, 150mm stabilized base layer (3% cement) and 30mm to 40mm wearing course.
4. Edge breaks category one – 30mm to 40mm wearing course.
5. Edge breaks category two – 150mm stabilized base layers (3% cement) and 30mm to 40mm wearing course.
6. Saw cut pothole edges and edge breaks.
7. Signage correction – re-install damage/lost signs.
8. Signage correction – hole excavations and concrete footings.
9. Road markings – line reinstatement and road insignia reinstatement.
10. Vegetation control.
11. Supply Labor

**Project contract conditions:**

- All specified deteriorated main road lines and insignia must be reinstated using the road marking paint.
- All identified and developing potholes to be repaired within a 24 hour period.
- Edge breaks posing hazard to road users must be repaired within a 24 hour period.
- Vegetation control must be attended to within 24 hour period of reporting.
- Damage signage's are to be repaired immediately after being reported.
- All tooling, vehicles and personnel must be certified and passed by contractor management before starting at the correct contract date. This function requires a full time road maintenance knowledgeable supervisor with good traffic control skills.

The successful contractor must have a full complement of traffic control equipment, personnel and signage to address any traffic eventuality during road repairs mine wide. This compliment will be separate and additional to the repair team.

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<p><b>A typical compliment of traffic control equipment</b>            Demarcation traffic cones            "STOP/GO" lolly pops (at least two)            Red flags            Full high visibility clothing            Speed reduction signage            Men at work signage            "STOP/GO" revolving signage            Flashing orange warning lights (at least 8) to be used only at night time            Radios (at least three)            Full PPE</p> <p><b>Deliverables</b></p> <ol style="list-style-type: none"> <li>1. Successful completion within quality of routine road maintenance for the specified period of the contract.</li> <li>2. Ba-Phalaborwa Municipality vegetation control.</li> </ol>	

**3. Drawings:**

No	Description	Dwg No	Rev:

**4. Inclusions/Exclusions:**

**Palabora:**  
 Material will be supplied by company

**Contractor:**  
 Only Labour supply

**5. Project Schedule:**

**The maintenance contract:**  
 Site meeting on: **No site meeting**  
 Venue:  
 Tender closing date on: **28 May 2021**

Project Completion Date:

**6. Quality:**

Quality parameters will be applicable but not limited to this project as per PROJ...Quality Management [PROJ-OP-009]

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**7. Tender Price Submission**

The pricing will be done as per the attached Pricing Schedule (Appendix 1 – Schedule of Quantities) and payments will be subjected to re-measurement of all quantities if applicable, otherwise a realistic progress agreed to by the Project Leader and the Project Inspector.

**8. Safety, Health and Environment Regulations**

The bidder is requested to familiarise himself with Palabora regulations, as laid out in the Palabora Standards, which is available on CD, from Contractor Management Centre.

**Housekeeping and Site Management**

The contractor will maintain a demarcated and tidy site at all times.

All construction rubble, waste and redundant equipment will be removed to appropriate dumping areas within the Palabora property on a daily basis.

**Environment:**

Palabora Mining Company is a certified ISO 14001 Company. The contractor is required at all times to observe the environmental requirements of the specific area in which the work is to be carried out and the property as a whole.

In particular, any chemicals that will be brought onto the property during the course of the contract execution should be brought to the attention of the Environmental Department

**9. PPE (Personal Protective Clothing)**

Standard Palabora PPE (minimum)  
Area specific (specify which items apply)

**10. Training And Qualifications**

See Appendix 2 – SHEQ plan, training and qualification matrix

**11. Site Supervision**

Minimum supervision required will be as specified in the latest revision of the Mines Health and Safety Act.

If more stringent supervision is required, it is to be specified here:

None

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<b>Appendix 1</b>					
Schedule of Quantities					
Project Title:		<b>Rehabilitation of road works: repairing of potholes, road slurry seal around Ba-Phalaborwa Municipal area.</b>			
Project No:		<b>Maintenance</b>			
	Description:	Unit	Qty	Rate	Amount
1.	Preliminary and general	SUM	1		
2.	Pothole category one	M <sup>2</sup>			
3.	Pothole category two	M <sup>2</sup>			
4.	Pothole category three	M <sup>2</sup>			
5.	Edge break category one	M <sup>2</sup>			
6.	Edge break category two	M <sup>2</sup>			
7.	Signage correction – damage/lost	No			
8.	Signage correction – hole excavation & concrete footings	No			
9.	Road markings – “STOP/YIELD” insignia, durable road paint	No			
10.	Vegetation control	m			
11.	<b>Labour Supply</b>				
11.1	Supply of project Supervisor	No	1		
11.2	Supply of a driver	No	1		
11.3	Supply of labour	No	12		
<b>TOTAL</b>					

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<b>Appendix 2 TRAINING AND QUALIFICATION MATRIX</b>				
Contract description:		Rehabilitation of road works: repairing of potholes, road slurry seal around Ba-Phalaborwa Municipal area.		
Project No:		Maintenance		
Description	Team/member	Vehicle/equipment Operator	Supervisor	Manager
2.6.1 Appointment				X
2.9.2 Appointment			X	
Medical examination	X	X	X	X
Generic safety induction	X	X	X	X
General isolation				
Working at heights	X			
Basic rigging				
Gas cutting & welding				
Electrical grinding				
Crane driver's license				
Truck & hydraulic hoist license (Hiab)				
HIRA Training	X	X	X	X
Supervisor legal course			X	
Provincial license		X	X	X
<b>Access and driving license:</b>				
PP&V mining				
VO plant				

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Mining surface				
Mining pit				
Concentrator dams				
<b>Trade certificates:</b>				
Fitter				
Boilermaker				
Electrician				
Instrument Technician				
Rigger				

<b>After receiving an official order:</b>	
Attend scope clarification meeting with project personnel.	X
Submit method statement to Project Inspector	X
Submit HIRA for job	X
Submit project schedule	na
Obtain contract clearance from Projects	X
Obtain HIRA approval from Project Engineer	X
<b>Before starting work:</b>	
Report to CMC for tool, equipment, personnel and competency and certification checks	X
Attend site specific induction by client supervisor	X
Obtain daily permit to work from client operations supervisor and sign off at end of shift.	X
Obtain hot work permit from client supervisor if required	NA
Obtain confined space permit if required.	NA
Obtain excavation permit if required.	X
Attach personal locks to equipment locked out by client isolation officer and supervisor if required, and remove when job is complete.	X