



PROJECT NO: JSM-O&M-MRK&SGN-23/24W00

A PANEL OF 3 CIVIL ENGINEERING CONTRACTORS TO PROVIDE ROAD MARKING AND SIGNAGE SERVICES FOR DR. JS MOROKA LOCAL MUNICIPALITY ROAD NETWORK AS AND WHEN REQUIRED FOR THREE YEARS CONTRACT

## C 2.2. BILL OF QUANTITIES

**CONTRACT NO: JSM- O&M-MRK&SGN-23/24W00**

**FOR PROVISION OF ROAD MARKING AND SIGNAGE SERVICES ALONG DRJSMLM ROAD NETWORK.**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
<b>ROAD MARKINGS</b>					
1	Establishment in the administration area of				
1.1		Ea.	1		
2.	Retro-reflective Road marking paint (Of Thermoplastic):				
2.1	White lines (unbroken):				
i	100mm wide	Km	Rate - Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate - Only		
iv	500mm wide	Km	Rate - Only		
2.2	White lines (broken):				
i	100mm wide	Km	Rate - Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate - Only		
iv	500mm wide	Km	Rate - Only		
2.3	Yellow/Red lines (unbroken)				
i	100mm wide	Km	Rate-Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate-Only		
iv	500mm wide	Km	Rate - Only		
2.4	Yellow/Red lines (broken)				
i	100mm wide	Km	Rate-Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate-Only		
iv	500mm wide	Km	Rate - Only		
3.	Retro-reflective Road marking paint (Of Solvent based paint):				
3.1	White lines (unbroken):				
i	100mm wide	Km	Rate - Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate - Only		



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iv	500mm wide	Km	Rate - Only		
3.2	White lines (broken):				
i	100mm wide	i	100mm wide		
ii	150mm wide	ii	150mm wide		
iii	300mm wide	iii	300mm wide		
iv	500mm wide	iv	500mm wide		
3.3	Yellow/Red lines (unbroken)				
i	100mm wide	Km	Rate-Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate-Only		
iv	500mm wide	Km	Rate - Only		
3.4	Yellow/Red lines (broken)				
i	100mm wide	Km	Rate-Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate-Only		
iv	500mm wide	Km	Rate - Only		
<b>A1</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
4.	Road marking paint (Solvent based paint):				
4.1	White lines (unbroken):				
i	100mm wide	Km	Rate - Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate - Only		
iv	500mm wide	Km	Rate - Only		
4.2	White lines (broken):				
i	100mm wide	Km	Rate - Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate - Only		
iv	500mm wide	Km	Rate - Only		
4.3	Yellow/Red lines (unbroken)				
i	100mm wide	Km	Rate-Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate-Only		
iv	500mm wide	Km	Rate - Only		



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4.4	Yellow/Red lines (broken)				
i	100mm wide	Km	Rate-Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate-Only		
iv	500mm wide	Km	Rate - Only		
5.	Proprietary brand plastic road marking pain (Thermoplastic):				
5.1	White lines (unbroken):				
i	100mm wide	Km	Rate - Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate - Only		
iv	500mm wide	Km	Rate - Only		
5.2	White lines (broken):				
i	100mm wide	Km	Rate - Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate - Only		
iv	500mm wide	Km	Rate - Only		
5.3	Yellow/Red lines (unbroken)				
i	100mm wide	Km	Rate-Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate-Only		
iv	500mm wide	Km	Rate - Only		
5.4	Yellow/Red lines (broken)				
i	100mm wide	Km	Rate-Only		
ii	150mm wide	Km	Rate - Only		
iii	300mm wide	Km	Rate-Only		
iv	500mm wide	Km	Rate - Only		
<b>B1</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
6	Lettering and Symbols				
i	White	m <sup>2</sup>	Rate - Only		
ii	Yellow / Red	m <sup>2</sup>	Rate - Only		
7	Kerb markings				
i	White	m <sup>2</sup>	Rate - Only		
ii	Yellow / Red	m <sup>2</sup>	Rate - Only		
8	Roads studs and beads				



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i	Glass beads	kg	Rate-Only		
ii	Reflector Roads studs	Number	Rate - Only		
iii	Aluminium Road Studs (with stem)	Number	Rate-Only		
iv	Removal of existing roadstuds	Number	Rate Only		
<b>9</b>	<b>Traffic – Island marking</b>				
i	White	m <sup>2</sup>	Rate - Only		
ii	Yellow / Red	m <sup>2</sup>	Rate - Only		
<b>10</b>	<b>Variation in the application</b>				
i	White paint	ℓ	Rate-Only		
ii	Yellow paint	ℓ	Rate - Only		
iii.	Red paint	ℓ	Rate - Only		
iv	Retro-reflective beads	kg	Rate-Only		
<b>11</b>	<b>Removal of existing paintworks</b>				
i	Sandblasting	m <sup>2</sup>	Rate-Only		
ii	Over painting	m <sup>2</sup>	Rate - Only		
12	Setting out and pre-marking the line (excluding traffic island markings, lettering and symbol)	Km	Rate-Only		
13	Accommodation of traffic during measurement and testing	Day	Rate-Only		
14	Pre-marking the lines and setting out	Km	Rate-Only		
15	Brooming	m <sup>2</sup>	Rate Only		
16	Re-establishing the painting unit at the end of the maintenance period	Lump sum	1		
<b>C1</b>	<b>TOTAL CARRIED TO SUMMARY</b>				
<b>SUB-TOTAL BROUGHT FORWARD (A1 + B1 + C1)</b>					



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ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<b>ROAD SIGNAGES</b>				
1	Establishment in the administration area of				
1.1	DRJSMLM	Ea.	1		
2.	<p><b>Sign boards with painted back-ground, symbols, lettering and borders in engineering-grade retro-reflective material with signboards constructed from –</b></p> <p>The tendered rates shall include full compensation for the provision of the completed sign board, frame and fixing brackets, including painting, galvanizing if specified, reflective lettering, symbols, legend and border, attaching the traffic-sign board to the sign support, and for all other materials and workmanship, brackets, bolts, nuts, etc, for the completion of the sign-board faces as specified.</p> <p>For payment purposes a distinction shall be made between traffic-sign boards made from the various materials specified.</p>				
2.1	Aluminium sheet (2,0mm thick):				
i	Area not exceeding 2 m <sup>2</sup>	m <sup>2</sup>	Rate - Only		
ii	Area exceeding 2 m <sup>2</sup> but not 10	m <sup>2</sup>	Rate - Only		
iii	Area exceeding 10 m <sup>2</sup>	m <sup>2</sup>	Rate - Only		
2.2	Aluminium extrusion:				
i	All sizes	m <sup>2</sup>	Rate-Only		
2.3	Sheet steel (Chromodek)				
i	Area not exceeding 2 m <sup>2</sup>	m <sup>2</sup>	Rate-Only		
ii	Area exceeding 2 m <sup>2</sup> but not 10	m <sup>2</sup>	Rate - Only		
iii	Area exceeding 10 m <sup>2</sup>	m <sup>2</sup>	Rate-Only		
<b>A2</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
3.	<b>Extra over item 2 for -</b>				
3.1	<b>Background of retro-reflective material of -</b>				
i	Engineering grade	m <sup>2</sup>	Rate - Only		
ii	High – intensity grade	m <sup>2</sup>	Rate - Only		
iii	Super – engineering grade	m <sup>2</sup>	Rate - Only		
3.2	<p><b>Lettering, symbols and borders of retro-reflective material of –</b></p> <ul style="list-style-type: none"> <li>The area measured for payment shall be the full area of the sign face as measured in item 3.1 (i).</li> <li>The tendered rates paid extra over items 3.1. (ii) and 3.1. (iii) shall be in full compensation for the additional cost of supplying retro-reflective background, symbols, lettering and borders of the types specified in each case.</li> </ul>				
i	High – intensity grade	m <sup>2</sup>	Rate-Only		
ii	Super – engineering grade	m <sup>2</sup>	Rate - Only		



4	<p><b>Sign supports –</b></p> <p>The tendered rates for sign supports shall include full compensation for the manufacture and erection of the supporting structures, including all bolts, screws, rivets, welding and accessories, together with the painting required, and for the provision of break-away holes in timber supports.</p>				
I	<p><b>Structural steel –</b></p> <p>The unit of measurement for structural-steel supporting structures shall be the ton of structural steel used. Bolts and other accessories used in the structure shall not be measured separately and their cost shall be deemed to be included in the rates tendered for structural steel.</p>	Ton (t)	Rate-Only		
<b>B2 TOTAL CARRIED TO SUMMARY</b>					
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
ii	<p><b>Structural tubing –</b></p> <p>The unit of measurement for supporting structures manufactured from steel tubing shall be the ton of pipes used. Bolts and other accessories shall not be measured separately and their cost shall be deemed to be included in the rates tendered for structural steel.</p>	Ton (t)	Rate - Only		
iii	<p><b>Timber (76mm diameter) –</b></p> <p>The unit of measurement for timber supporting structures shall be the metre of each diameter post used. Bolts and other accessories shall not be measured separately and their cost shall be deemed to be included in the rates tendered for structural steel.</p>	Metre (m)	Rate-Only		
5	<p>Extra over item 4(i) and 4(ii) –</p> <p>The tendered rates paid extra over items 4(i) and 4(ii) shall be in full compensation for the additional costs of providing the treatment specified.</p>				
j	Unpainted galvanized steel members	Ton (t)	Rate - Only		
ii	Painted galvanized steel members	Ton (t)	Rate - Only		



6	<p><b>Excavation and backfilling for sign supports –</b></p> <ul style="list-style-type: none"> <li>The unit of measurement shall be the cubic metre of excavation measured in place according to the neat dimensions of the footing or excavations as shown on the Drawings or directed by the Engineer. In the case of timber poles not in concrete, the plan area of the excavated hole shall be taken as 0,16 m<sup>2</sup>, regardless of the actual size of the excavated hole.</li> <li>The tendered rate shall be in full compensation for excavating, backfilling and compacting the backfill material, for the disposal of all surplus excavated material and for the supplying of backfill material and mixing it with cement.</li> </ul>	m <sup>3</sup>	Rate - Only		
<b>C2 TOTAL CARRIED TO SUMMARY</b>					
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
7	<p><b>Dismantling, storing and re – erecting traffic signs with a surface area of –</b></p> <ul style="list-style-type: none"> <li>The unit of measurement shall be the number of signs of each size group dismantled and re-erected.</li> <li>The tendered rates shall include full compensation for dismantling the traffic signs and supporting structures, storing and transporting the material to the new site, and the re-erection of the signs.</li> <li>Payment for excavations, new material and concrete required for re-erection shall be made under the appropriate item, and any repairs and repainting shall be paid for as extra work. No separate payment shall be made for new bolts and nuts required for re-erection, and the cost thereof shall be included in the rates tendered below.</li> </ul>				
ii	Area not exceeding 2 m <sup>2</sup>	Number	Rate - Only		
iii	Area exceeding 2 m <sup>2</sup> but not 5 m <sup>2</sup>	Number	Rate-Only		
iii	Area exceeding 5 m <sup>2</sup> but not 10 m <sup>2</sup>	Number	Rate - Only		
iv	Area exceeding 10 m <sup>2</sup> but not 15 m <sup>2</sup>	Number	Rate-Only		



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v	Area exceeding 15 m <sup>2</sup>	Number	Rate-Only		
180	<b>Dayworks</b>				
0					
B18	Transport				
.05					
(a)	LDV- Up to 1,5 ton	km	Rate-Only		
(b)	Truck up to 8 ton	Km	Rate-Only		
<b>D2</b>	<b>TOTAL CARRIED TO SUMMARY</b>				
<b>SUB-TOTAL BROUGHT FORWARD (A2+B2+C2+D2)</b>					

**GRAND TOTAL**

<b>TOTAL (A1+B1+C1) + (A2+B2+C2+D2)</b>	
<b>ADD 15% VAT</b>	
<b>TENDERED TOTAL FOR ROAD MARKINGS AND SIGNAGE</b>	

**NB THE APPOINTED BIDDER WILL THEN BE FURNISHED WITH ALL UNDERWRITING INFORMATION**

**TOTAL AMOUNT TO BE FORWARDED TO FORM C 1.1 (FORM OF OFFER)**

.....  
Signature

.....  
Date

.....  
Capacity