

**UN HOUSE GRAVEL EXIT ROAD
UPGRADE TO BITUMINOUS STANDARD PROJECT**

ITEM	DESCRIPTION	QTY	UNIT	RATE (ZMW)	AMOUNT (ZMW)
	<p>The rates and prices bid in the priced Bill of Quantities shall include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied for the complete execution of work</p> <p>All thicknesses of layers indicated in the document are after compaction unless specified</p> <p>The road width is specified to be 5.5m</p> <p>The length of the road is 202m</p>				
1.0	GENERAL ITEMS				
A	Contractor's establishment on site (mobilization and demobilization)	1	Ls		
B	Allow for traffic management by provision of temporary road signs, road cones and traffic personnel to control traffic	1	Ls		
	Total of General Items carried to Grand Summary				
2.0	SITE CLEARANCE				
A	Cutting of trees, including cutting of trunks and branches, removal of stumps, roots, stacking of reusable material -the rates will also include hauling of material and disposal of spoil	404	Sqm		
	Total of Site Clearance carried to Grand Summary				
3.0	EXCAVATION				
A	Removal of unsuitable material to a depth of 150mm on the shoulders of the existing road to widen the road - the rates will include both excavating and hauling of material offsite	166.65	Cum		
B	Compact the roadbed to 93% of modified AASHTO density	1,111	Sqm		
	Total of Excavation carried to Grand Summary				

4.0	SUBGRADE				
A	Scarifying the existing road to a depth of 150mm to be followed by reshaping and compacting to specified camber and width forming the roadbed to 93% of modified AASHTO density	1,111	Sqm		
B	Provide 200mm thick fill layer of well-graded gravel material as subgrade and compact to 93% of modified AASHTO density – the subgrade will constitute suitable in situ material	222.20	Cum		
	Total of Subgrade carried to Grand Summary				
5.0	SUBBASE				
A	Provide 200mm thick fill layer of well-graded gravel material as subbase and compact to 95% of modified AASHTO density	222.20	Cum		
	Total of Subbase carried to Grand Summary				
6.0	BASE				
A	Provide 150mm stone base layer and compact to 98% of modified AASHTO density	166.65	Cum		
B	Providing and applying prime coat on a well-broomed stone base surface by using mechanical means. The prime coat shall be MC-30 and applied at the rate of 0.8litres/SQM	1,111	Sqm		
	Total of Base carried to Grand Summary				
7.0	ASPHALT WEARING COURSE				
A	Supply, lay and roll 40mm hot mix asphalt (HMA) wearing course to serve as the final pavement layer	1,111	Sqm		
	Total of Asphalt Wearing Course carried to Grand Summary				
8.0	SIDE DRAIN				
A	Improve the side of the road to the required slope with V-shaped earth drains on both sides. Stone pitching for erosion protection at the joint intersection with municipal drain – 1000mm wide and 600mm deep otherwise as specified by the Client	404	m		
B	Provide half battered kerb (914mm long x 225mm thick)	404	m		

C	Improve the access points for selected properties along the road by way of paved bell mouths	3	No		
	Total of Side Drain carried to Grand Summary				
9.0	ROAD SIGNS				
	Provide the following road signs well-erected on a 75mm diameter signpost – a dead end, 30km/hr (x2), T-junction/stop sign				
A	Dead end sign	1	No		
B	Stop/T-junction sign	1	No		
C	30km/hr speed sign	2	No		
	Total of Road Signs carried to Grand Summary				
10.0	MATERIAL TESTING AND WORKMANSHIP				
A	Performing all kinds of testing during construction in conformity with the specifications and as directed by the Client's representative – table in SoW	1	LS		
	Total of Material Testing and Workmanship carried to Grand Summary				
	GRAND SUMMARY				
	GENERAL ITEMS			K	
	SITE CLEARANCE			K	
	EXCAVATION			K	
	SUBGRADE			K	
	SUBBASE			K	
	BASE			K	
	ASPHALT WEARING COURSE			K	
	SIDE DRAIN			K	
	ROAD SIGNS			K	
	MATERIAL TESTING AND WORKMANSHIP			K	
	TOTAL			K	
	Add P&Gs (10% OF TOTAL)			K	
	GRAND TOTAL			K	