

BARHATAL RURAL MUNICIPALITY  
OFFICE OF THE RURAL MUNICIPAL EXECUTIVE

**Rate analysis**

<b>Description of works:</b>		Road way excavation in soft soil including disposal upto 10 m and lift upto 1.5 m etc. all complete as per specification by hydraulic excavator upto 0.8 m3 capacity .														<b>Unit : 1 m3</b>	
Spec. cl. No: 905																	
Norms No.	Labour (A)					Material (B)					Equipment (C)						
	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount		
9.01.a						diesel		0.1248	101.00	12.61		excavator	hr	0.0104	1858.80	19.34	
Sub total of A =					0.00	Sub total of B =					12.61	Sub total of C =					19.34
<b>Total (I=A+B+C) :</b>					<b>31.95</b>	<b>Overhead (15%)</b>					<b>4.80</b>	<b>Total</b>					<b>36.75</b>

<b>Description of works:</b>		Road way excavation in hard soil /BMS including disposal upto 10 m and lift upto 1.5 m etc. all complete as per specification by hydraulic excavator upto 0.8 m3 capacity .														<b>Unit : 1 m3</b>	
Spec. cl. No: 905																	
Norms No.	Labour (A)					Material (B)					Equipment (C)						
	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount		
9.01.a						diesel		0.15	101.00	15.15		excavator	hr	0.0125	1858.80	23.24	
Sub total of A =					0.00	Sub total of B =					15.15	Sub total of C =					23.24
<b>Total (I=A+B+C) :</b>					<b>38.39</b>	<b>Overhead (15%)</b>					<b>5.76</b>	<b>Total</b>					<b>44.15</b>

<b>Description of works:</b>		Road way excavation in soft rock including disposal upto 10 m and lift upto 1.5 m etc. all complete as per specification by hydraulic excavator upto 0.8 m3 capacity .														<b>Unit : 1 m3</b>	
Spec. cl. No: 905																	
Norms No.	Labour (A)					Material (B)					Equipment (C)						
	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount		
9.01.a						diesel		0.2064	101.00	20.85		excavator	hr	0.0172	1858.80	31.98	
Sub total of A =					0.00	Sub total of B =					20.85	Sub total of C =					31.98
<b>Total (I=A+B+C) :</b>					<b>52.83</b>	<b>Overhead (15%)</b>					<b>7.93</b>	<b>Total</b>					<b>60.76</b>

<b>Description of works:</b>		Road way excavation in hard rock including disposal upto 10 m and lift upto 1.5 m etc. all complete as per specification by hydraulic excavator upto 0.8 m3 capacity .														<b>Unit : 1 m3</b>
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Spec. cl. No: 905																m3	
Norms No.	Labour (A)					Material (B)					Equipment (C)						
	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount		
9.01.a						diesel		0.2724	101.00	27.52		excavator	hr	0.0227	1858.80	42.20	
Sub total of A =					0.00	Sub total of B =					27.52	Sub total of C =					42.20
<b>Total (I=A+B+C) :</b>					<b>69.72</b>	<b>Overhead (15%)</b>					<b>10.46</b>	<b>Total</b>					<b>80.18</b>

Description of works:		Road way excavation in soft soil including disposal upto 10 m and lift upto 1.5 m etc. all complete as per specification. (manual)														Unit : 1 m3		
Spec. cl. No: 905																m3		
Norms No.	Labour (A)					Material (B)					Equipment (C)							
	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount			
9.01.a	Unskilled	md	0.750	520.00	390.00						Tools and plant		3.00%	of L.C.	11.70			
Sub total of A =					390.00	Sub total of B =					0.00	Sub total of C =					11.70	
Sub total of A +B + C =					401.70	Contractor's overhead expenses 15% =						60.26	<b>Unit Rate =</b>					<b>461.96</b>

Description of works:		Road way excavation in Hard soil / Gravel / Boulder mixed soil including disposal upto 10 m and lift upto 1.5 m etc. all complete as per specification. (manual)														Unit : 1 m3		
Spec. cl. No: 905																m3		
Norms No.	Labour (A)					Material (B)					Equipment (C)							
	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount			
9.01.b	Unskilled	md	1.000	520.00	520.00						Tools and plant		3.00%	of L.C.	15.60			
Sub total of A =					520.00	Sub total of B =					0.00	Sub total of C =					15.60	
Sub total of A +B + C =					535.60	Contractor's overhead expenses 15% =						80.34	<b>Unit Rate =</b>					<b>615.94</b>

Description of works:		Road way excavation in Soft rock including disposal upto 10 m and lift upto 1.5 m etc. all complete as per specification. (Manual)														Unit : 1 m3		
Spec. cl. No: 905																m3		
Norms No.	Labour (A)					Material (B)					Equipment (C)							
	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount			
9.01.c	Unskilled	md	2.750	520.00	1430.00						Tools and plant		3.00%	of L.C.	42.90			
Sub total of A =					1430.00	Sub total of B =					0.00	Sub total of C =					42.90	
Sub total of A +B + C =					1472.90	Contractor's overhead expenses 15% =						220.94	<b>Unit Rate =</b>					<b>1693.84</b>

Description of works:		Road way excavation in Hard rock including disposal upto 10 m and lift upto 1.5 m etc. all complete as per specification. [Manual]														Unit : 1
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Spec. cl. No: 905														m <sup>3</sup>				
Norms No.	Labour (A)					Material (B)					Equipment (C)							
	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount			
9.01.b	Unskilled	md	12.000	520.00	6240.00						Tools and plant		3.00%	of L.C.	187.20			
Sub total of A =					6240.00	Sub total of B =					0.00	Sub total of C =					187.20	
Sub total of A +B + C =					6427.20	Contractor's overhead expenses 15% =						964.08	Unit Rate =					<b>7391.28</b>

<u>Road way Excavation</u>				
Provide Combination of manual and machined excavation				
Hard Soil	Percentage	Rate	Amount	
Manual Excavation	10	615.94	61.59	
Machined Excavation	90	44.15	39.74	
<b>Total</b>			<b>101.33</b>	
Soft Rock	Percentage	Rate	Amount	
Manual Excavation	10	1693.84	169.38	
Machined Excavation	90	60.76	54.68	
<b>Total</b>			<b>224.07</b>	33.61
Hard Rock	Percentage	Rate	Amount	
Manual Excavation	10	7391.28	739.13	
Machined Excavation	90	80.18	72.16	
<b>Total</b>			<b>811.29</b>	121.69
			<b>689.60</b>	
Average Rate for all types of Cutting I				
Hard Soil	90	101.33	91.20	
Soft Rock	5	224.07	11.20	
Hard Rock	5	811.29	40.56	
<b>TOTAL</b>			<b>142.96</b>	21.44
			<b>121.52</b>	