

**ANNEXURE TO CLAUSE 34 (j) SHOWING QUANTITIES OF MATERIALS FOR AREAS OF SURFACING TO BE CONSIDERED FOR WORKING OUT MINIMUM PERIOD FOR WHICH HIRE CHARGES OF ROAD ROLLER ARE TO BE RECOVERED**

SI No	Material of Surfacing	Quantity or area
1.	Consolidation of earth subgrade	1860 sqm
2.	Consolidation of stone soling 15cm to 22.5cm thick	170 cum
3.	Consolidation of brick soling 10cm to 20cm thick	230 cum
4.	Consolidation of wearing coat of stone ballast 7.5cm to 11.5cm thick	30 cum
5.	Consolidation of wearing coat of brick ballast 10cm thick	60 cum
6.	Painting one coat using stone aggregate 12.5mm nominal size	
a)	@1.65m <sup>3</sup> per 100m <sup>2</sup> and paving bitumen A-90 or S-90 @2.25 kg.per M <sup>2</sup>	
	OR	
b)	@1.50m <sup>3</sup> per 100m <sup>2</sup> and bitumen emulsion or Road tar @2.25kg per M <sup>2</sup>	930 sqm
7.	Spreading and consolidation of red bajri 6mm	1860 sqm
8.	Painting two coats using	
a)	For First coat stone aggregate 12.5mm nominal size	
i)	@1.50 m <sup>3</sup> per 100m <sup>2</sup> with paving bitumen A-90 or S-90 @2kg/sq.m	
	OR	
ii)	@1.35m <sup>3</sup> per 100m <sup>2</sup> with bitumen emulsion @2kg/sq.m	
	OR	
iii)	@1.25m <sup>3</sup> with road tar @2.25 kg/sqm	600 sqm
b)	For 2 <sup>nd</sup> coat, stone aggregate 10mm nominal size 0.9 cum per 100 sqm with-	
i)	1 Kg of paving bitumen A-90 or S-90, or bitumen emulsion per sqm.	
ii)	1.25 kg of road tar per sqm	
9.	Repainting with stone aggregate 10mm nominal size 0.90cum per 100 sqm with	
a)	1 kg paving bitumen A-90 or S-90 per sqm	
b)	1.25 kg paving bitumen emulsion per sqm	1670 sqm
10.	2cm premix carpet surfacing using 2.4 cum of stone aggregate 10 mm nominal size per 100 sqm and binder including tack coat, the binder being hot cutback bitumen or bitumen emulsion in specified quantities	930 sqm.

SI No	Material of Surfacing	Quantity or area
11.	2.5cm premix carpet surfacing using 3 cum of stone aggregate 10mm nominal size per 100 sqm and binder including tack coat, the binder being hot cutback bitumen or bitumen emulsion in specified quantities.	930 sqm
12.	4 cm thick bitumen concrete surfacing using stone aggregate 3.8 cum (60% 20mm nominal size and 40% 12.5mm nominal size) per 100m <sup>2</sup> and course sand 1.9 cum per 10sqm and hot cut back bitumen over a tack coat of hot cut back bitumen	460 sqm
13.	5cm thick bitumen concrete surfacing using stone aggregate 4.8 cum (60% 25mm nominal size and 40% 20mm nominal size) per 100 m <sup>2</sup> and course sand 2.4cum per 100 sqm and hot cut back bitumen over a tack coat of hot cut back bitumen.	370 sqm
14.	7.5 cm thick bitumen concrete surfacing using stone aggregate 5.8cum (60% 40mm nominal size and 40% 25mm nominal size) per 100m <sup>2</sup> and course sand 3.65 cum per 100 sqm and hot cut back bitumen over a tack coat of hot cut back bitumen.	280sqm
15.	6cm thick bitumen concrete surfacing using stone aggregate 5.8cum (60% 40mm nominal size and 40% 25mm nominal size) per 100me and course sand 2.9 cum per 100 sqm and hot cut back bitumen over a tack coat of hot cut back bitumen.	280 sqm
16.	2.5cm bitumastic sheet using stone aggregate 1.65 cum (60% 12.5mm nominal size and 40% 10mm nominal size) per 100 m <sup>2</sup> and course sand 1.65 cum per 100 sqm and hot cut back bitumen over a tack coat of hot cut back bitumen.	750sqm
17.	4cm thick bitumastic sheet using stone aggregate 2.6cum (60% 12.5mm nominal size and 40% 10mm nominal size) per 100m <sup>2</sup> and course sand 2.5 cum per 100 sqm and hot cut back bitumen over a tack coat of hot cut back bitumen.	560 sqm
18.	Laying full grouted surface using stone aggregate 40mm nominal size 6.10 cum per 100 sqm with binder, binding with 20mm to 12.5mm nominal size stone grit; 1.83 cum per 100 sqm and seal coat binder and stone grit 10mm nominal size 1.07 cum per 100 sqm the binder being hot bitumen of tar as specified	460 sqm
19.	Laying full grouted surface using stone aggregate 50mm nominal size 9.14 cum per 100 sqm grouting with binder, binding with stone grit 20mm to 12.5 mm nominal size 1.83 cum per 100 sqm and seal coat of binder and stone grit 10mm nominal size 1.07 cum per 100 sqm.	370 sqm
20.	4 cm thick premix macadam surfacing using stone aggregate 25mm nominal size 4.57 cum per 100 sqm and hot bitumen binding with stone aggregate 12.5mm nominal size 1.52 cum per 100 sqm and seal coat of hot bitumen and stone aggregate 10mm nominal	560 sqm

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<b>SI No</b>	<b>Material of Surfacing</b>	<b>Quantity or area</b>
	size 1.07 cum per 100 sqm.	
21.	5cm thick premix macadam surfacing using stone aggregate 25mm nominal size 6.10 cum per 100 sqm and hot bitumen binding with stone aggregate 12.5mm nominal size 1.52 cum per 100 sqm and seal coat of hot bitumen and stone aggregate 10mm nominal size 1.07 cum per 100 sqm.	460 sqm

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