

Checklist for Inspection of Road works

Stage of work/Item	Technical Parameters to be checked / ensured	As per estimate	At Site
1	2	3	4
Geometrics (verify irrespective of stage of work)	To check and ensure the following		
	a) Length		
	b) Roadway width (6.00m/7.50m)		
	c) Carriage way width (3.00m /3.75m)		
	d) Shoulder width (1.875m /1.50m)		
	e) CC pavement width		
	f) Camber of shoulders and embankment (Range- 4 to 5% in case of Earthen road, 3.5 % to 4% in case of Gravel/WBM surface and 3 to 3.5% in case of BT surface)	Does not arise	Yes
			No
			Not adequately done
Sub Base / GSB	Thickness in "mm"		
	Whether the compaction is adequate	Does not arise	Yes
			No
			Not adequately done
	Whether Shoulder is compacted simultaneously along with the Sub base	Does not arise	Yes
			No
Not adequately done			

Stage of work/Item	Technical Parameters to be checked / ensured	As per estimate	At Site																																				
Base course (WBM Gr II/III or WMM)	Whether metal aggregates conform to required grading (in case of WBM construction)	Does not arise	Yes																																				
	Grading Requirement for WBM																																						
	<table border="1"> <thead> <tr> <th data-bbox="397 390 578 443">Sieve size</th> <th colspan="3" data-bbox="578 390 1073 443">Percent by weight passing</th> </tr> <tr> <td data-bbox="397 443 578 558"></td> <th data-bbox="578 443 737 558">Grading I</th> <th data-bbox="737 443 896 558">Grading II</th> <th data-bbox="896 443 1073 558">Grading III</th> </tr> </thead> <tbody> <tr> <td data-bbox="397 558 578 611">125mm</td> <td data-bbox="578 558 737 611">100</td> <td data-bbox="737 558 896 611">-</td> <td data-bbox="896 558 1073 611">-</td> </tr> <tr> <td data-bbox="397 611 578 663">90 mm</td> <td data-bbox="578 611 737 663">90-100</td> <td data-bbox="737 611 896 663">100</td> <td data-bbox="896 611 1073 663">-</td> </tr> <tr> <td data-bbox="397 663 578 716">63mm</td> <td data-bbox="578 663 737 716">25-60</td> <td data-bbox="737 663 896 716">90-100</td> <td data-bbox="896 663 1073 716">100</td> </tr> <tr> <td data-bbox="397 716 578 768">53 mm</td> <td data-bbox="578 716 737 768">-</td> <td data-bbox="737 716 896 768">25-75</td> <td data-bbox="896 716 1073 768">95-100</td> </tr> <tr> <td data-bbox="397 768 578 821">45 mm</td> <td data-bbox="578 768 737 821">0-15</td> <td data-bbox="737 768 896 821">0-15</td> <td data-bbox="896 768 1073 821">65-90</td> </tr> <tr> <td data-bbox="397 821 578 873">22.4 mm</td> <td data-bbox="578 821 737 873">0-5</td> <td data-bbox="737 821 896 873">0-5</td> <td data-bbox="896 821 1073 873">0-10</td> </tr> <tr> <td data-bbox="397 873 578 926">11.2 mm</td> <td data-bbox="578 873 737 926">-</td> <td data-bbox="737 873 896 926">-</td> <td data-bbox="896 873 1073 926">0-5</td> </tr> </tbody> </table>			Sieve size	Percent by weight passing				Grading I	Grading II	Grading III	125mm	100	-	-	90 mm	90-100	100	-	63mm	25-60	90-100	100	53 mm	-	25-75	95-100	45 mm	0-15	0-15	65-90	22.4 mm	0-5	0-5	0-10	11.2 mm	-	-	0-5
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Material finer than 425 micron shall have plasticity Index (PI) not exceeding 6	Not adequately done																																						

Stage of work/Item	Technical Parameters to be checked / ensured	As per estimate	At Site
	Whether the Volume of gravel is within 22% to 24% (in case of WBM construction)	Does not arise	Yes
			No
			Not adequately done
Base course (WBM Gr II/III or WMM)	Thickness (WBM/WMM) WBM Gr.I – 100 mm		Yes
	WBM Gr.II -75 mm		No
	WBM Gr.III -75 mm		Not adequately done
	Whether the compaction is adequate (Field density test)	Does not arise	Yes
			No
			Not adequately done
	Whether Shoulder is compacted simultaneously along with the Base course	Does not arise	Yes
No			
Not adequately done			
Prime coat /Tack coat	Whether WBM/WMM surface is properly cleaned before applying Prime coat/tack coat	Does not arise	Yes
			No
			Not adequately done

Stage of work/Item	Technical Parameters to be checked / ensured	As per estimate	At Site
Prime coat /Tack coat	Whether Prime coat/ tack coat is applied uniformly over the cleaned WBM/WMM surface before laying BT	Does not arise	Yes
			No
			Not adequately done
Bituminous layer	Thickness		
	% of Binder content (Required - 4.32% , +/- 0.30%)	Does not arise	Yes
			No
			Not adequately done
	Whether the compaction is adequate	Does not arise	Yes
			No
Not adequately done			
Road Furniture	Whether Name Board is provided	Does not arise	Yes
			No
			Not adequately done
	Whether KM stone and HM stone are properly fixed with concrete base	Does not arise	Yes
			No
			Not adequately done

Stage of work/Item	Technical Parameters to be checked / ensured	As per estimate	At Site			
	Whether Sign board(s)/Cautionary Boards is provided		<table border="1"> <tr><td data-bbox="1255 212 1437 323">Yes</td></tr> <tr><td data-bbox="1255 323 1437 434">No</td></tr> <tr><td data-bbox="1255 434 1437 573">Not adequately done</td></tr> </table>	Yes	No	Not adequately done
Yes						
No						
Not adequately done						
Shoulder	Whether Gravel (or) excavated side earth (or) carted earth is provided for shoulder					
Drainage	Whether Proper side drain is provided for avoiding stagnation of water along the road side	Does not arise	<table border="1"> <tr><td data-bbox="1255 747 1437 858">Yes</td></tr> <tr><td data-bbox="1255 858 1437 970">No</td></tr> <tr><td data-bbox="1255 970 1437 1073">Not adequately done</td></tr> </table>	Yes	No	Not adequately done
Yes						
No						
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Culverts	Number and location of culvert(s)					
	Whether the culvert(s) provided is adequate (or) necessary as per site condition	Does not arise	Yes			
			No			
			Not adequately done			
	Whether cross drain is properly integrated with the side drain	Does not arise	Yes			
			No			
Not adequately done						

Stage of work/Item	Technical Parameters to be checked / ensured	As per estimate	At Site
Retaining wall	Whether the retaining wall provided is adequate in required location(s)	Does not arise	Yes
			No
			Not adequately done
Preparation of Bill	Whether bill is prepared without fail	Does not arise	Yes
			No
Payment	Whether payment has been made upto the present stage	Does not arise	Yes
			No
	Whether Final payment has been made (For completed work)	Does not arise	Yes
			No