

National Highway Authority of India				
Name of Work				
Name of Client				
Name of Consultant				
Name of Contractor				
Individual Gradation				
Date of Sampling		Date of Testing		
Sample No.		Source of Material		
Type of Material		Sample At		
Sample No-1		Total Weight(gms)	2	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	1	1	50	99.5
45	0	1	50	99.5
22.4	0	1	50	99.5
11.2	0	1	50	99.5
4.75	0	1	50	99.5
2.36	0	1	50	99.5
0.6	0	1	50	99.5
0.075	0	1	50	99.5
Sample No-2		Total Weight(gms)	2	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	1.2	1.2	60	99.4
45	0	1.2	60	99.4
22.4	0	1.2	60	99.4
11.2	0	1.2	60	99.4
4.75	0	1.2	60	99.4
2.36	99.4	1.2	0.6	0
1.2	99.4	1.2	0.075	0
Sample No-3		Total Weight(gms)	2	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	1.1	1.1	55	99.45
45	0	1.1	55	99.45
22.4	0	1.1	55	99.45
11.2	0	1.1	55	99.45
4.75	0	1.1	55	99.45
2.36	0	1.1	55	99.45
2.36	0	1.1	55	99.45
0.075	0	1.1	55	99.45
Remarks:				
Tested by		Checked by		Random sample checked
Authority's Engineer		Client		
Tested by		Checked by		Random sample checked

National Highway Authority of India				
Name of Work				
Name of Client				
Name of Consultant				
Name of Contractor				
Individual Gradation				
Date of Sampling		Date of Testing		
Sample No.		Source of Material		
Type of Material		Sample At		
Sample No-1		Total Weight(gms)	17	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	5	6	35.2941	64.7059
45	0	6	35.2941	64.7059
22.4	0	6	35.2941	64.7059
11.2	0	6	35.2941	64.7059
4.75	0	6	35.2941	64.7059
2.36	0	6	35.2941	64.7059
0.6	0	6	35.2941	64.7059
0.075	0	6	35.2941	64.7059
Sample No-2		Total Weight(gms)	17	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	15	16	94.1176	5.88235
45	0	16	94.1176	5.88235
22.4	0	16	94.1176	5.88235
11.2	0	16	94.1176	5.88235
4.75	0	16	94.1176	5.88235
2.36	5.88235	16	0.6	0
16	5.88235	16	0.075	0
Sample No-3		Total Weight(gms)	17	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	10	11	64.7059	35.2941
45	0	11	64.7059	35.2941
22.4	0	11	64.7059	35.2941
11.2	0	11	64.7059	35.2941
4.75	0	11	64.7059	35.2941
2.36	0	11	64.7059	35.2941
2.36	0	11	64.7059	35.2941
0.075	0	11	64.7059	35.2941
Remarks:				
Tested by		Checked by		Random sample checked
Authority's Engineer		Client		
Tested by		Checked by		Random sample checked

National Highway Authority of India				
Name of Work				
Name of Client				
Name of Consultant				
Name of Contractor				
Individual Gradation				
Date of Sampling		Date of Testing		
Sample No.		Source of Material		
Type of Material		Sample At		
Sample No-1		Total Weight(gms)	5	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	4	4	80	20
45	0	4	80	20
22.4	0	4	80	20
11.2	0	4	80	20
4.75	0	4	80	20
2.36	0	4	80	20
0.6	0	4	80	20
0.075	0	4	80	20
Sample No-2		Total Weight(gms)	5	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	0	0	0	100
45	0	0	0	100
22.4	0	0	0	100
11.2	0	0	0	100
4.75	0	0	0	100
2.36	100	0	0.6	0
0	100	0	0.075	0
Sample No-3		Total Weight(gms)	5	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	4.05	4.05	81	19
45	0	4.05	81	19
22.4	0	4.05	81	19
11.2	0	4.05	81	19
4.75	0	4.05	81	19
2.36	0	4.05	81	19
2.36	0	4.05	81	19
0.075	0	4.05	81	19
Remarks:				
Tested by		Checked by		Random sample checked
Authority's Engineer		Client		
Tested by		Checked by		Random sample checked

National Highway Authority of India				
Name of Work				
Name of Client				
Name of Consultant				
Name of Contractor				
Individual Gradation				
Date of Sampling		Date of Testing		
Sample No.		Source of Material		
Type of Material		Sample At		
Sample No-1		Total Weight(gms)	100	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	70	70	70	30
45	0	70	70	30
22.4	0	70	70	30
11.2	0	70	70	30
4.75	0	70	70	30
2.36	0	70	70	30
0.6	0	70	70	30
0.075	0	70	70	30
Sample No-2		Total Weight(gms)	100	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	67	67	67	33
45	0	67	67	33
22.4	0	67	67	33
11.2	0	67	67	33
4.75	0	67	67	33
2.36	33	67	0.6	0
67	33	67	0.075	0
Sample No-3		Total Weight(gms)	100	
IS SIEVE	Wt. Of Retained(gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing
53	68	68	68	32
45	0	68	68	32
22.4	0	68	68	32
11.2	0	68	68	32
4.75	0	68	68	32
2.36	0	68	68	32
2.36	0	68	68	32
0.075	0	68	68	32
Remarks:				
Tested by		Checked by	Random sample checked	
Authority's Engineer		Client		
Tested by		Checked by	Random sample checked	

National Highway Authority of India												
Name of Work												
Name of Client												
Name of Consultant												
Name of Contractor												
WMM												
AS PER IS 2386 Part IV												
IS SIEVE	Average of Individual % Passing				% Taken for design				Combined % Passing	MID LIMIT	SPECIFICATION LIMIT AS PER MORTH	
	40 MM	20 MM	10 MM	Dust	40 MM 20 MM 10 MM Dust						Lower	Higher
					10	40	10	40				
53	98.4555	34.9412	45.87	31.35	9.84555	13.9765	4.587	12.54	40.949	100	100	100
45	98.4555	34.9412	45.87	31.35	9.69349	4.88354	2.10406	3.93129	20.6124	97.5	95	100
22.4	98.4555	34.9412	45.87	31.35	9.54377	1.70637	0.965131	1.23246	13.4477	70	60	80
11.2	98.4555	34.9412	45.87	31.35	9.39637	0.596225	0.442705	0.386376	10.8217	50	40	60
4.75	98.4555	34.9412	45.87	31.35	9.25124	0.208328	0.203069	0.121129	9.78376	32.5	25	40
2.36	98.4555	34.9412	45.87	31.35	9.10835	0.0727923	0.0931477	0.0379739	9.31227	22.5	15	30
0.6	98.4555	34.9412	45.87	31.35	8.96767	0.0254345	0.0427269	0.0119048	9.04774	15	8	22
0.075	98.4555	34.9412	45.87	31.35	8.82917	0.00888711	0.0195988	0.00373216	8.86139	2.5	0	5
Remarks:												
Tested by					Checked by				Random sample checked			
Authority's Engineer							Client					
Tested by					Checked by				Random sample checked			

National Highway Authority of India							
Name of Work							
Name of Client							
Name of Consultant							
Name of Contractor							
WMM COMBIEND GRADATION						Date:	1/1/2000
40mm: 10	20mm: 40	10mm: 10	Stone Dust: 40	Total Weight		560	
IS SIEVE	Wt. Of Retained (gms)	Cumulative Weight Retained	Cumulative % Retained	Cumulative % Passing	MID LIMIT	SPECIFICATION LIMIT AS PER MORTH	
						Lower	Higher
53	56	56	10	0	100.00	100.00	100.00
45	56	112	20	0	97.50	95	100
22.4	56	168	30	0	70.00	60	80
11.2	56	224	40	0	50.00	40	60
4.75	56	280	50	0	32.50	25	40
2.36	56	336	60	0	22.50	15	30
0.6	56	392	70	0	15.00	8	22
0.075	56	448	80	0	2.50	0	5
Remarks:							
Tested by			Checked by			Random sample checked	
Authority's Engineer				Client			
Tested by			Checked by			Random sample checked	

National Highway Authority of India				
Name of Work				
Name of Client				
Name of Consultant				
Name of Contractor				
PASSING OF % 40 MM AGG.				
IS SIEVE	Sample no- 1	Sample no- 2	Sample no- 3	Average Passing of %
0	0	0	0	33.15
0	0	0	0	0
0	99.5	99.4	99.45	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
PASSING OF % 20 MM AGG.				
IS SIEVE	Sample no- 1	Sample no- 2	Sample no- 3	Average Passing of %
0	0	0	0	11.7647
0	0	0	0	0
0	64.7059	5.88235	35.2941	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
PASSING OF % 10 MM AGG.				
IS SIEVE	Sample no- 1	Sample no- 2	Sample no- 3	Average Passing of %
0	0	0	0	6.33333
0	0	0	0	0
0	20	100	19	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
PASSING OF % STONE DUST				
IS SIEVE	Sample no- 1	Sample no- 2	Sample no- 3	Average Passing of %
0	0	0	0	10.6667
0	0	0	0	0
0	30	33	32	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	00	0
0	0	0	0	0
Remarks:				
Tested by		Checked by	Random sample checked	
R & C INFRAENGINEERS PVT LTD		Authority's Engineer	Client	