	-	Natio	nal Highway Authorit	y of India		-
Name of Work	T	Nauo	nai riighway Authorit	y or muia		
Name of Client						
Name of Consultant						
Name of Contractor			Individual Gradatio			
Date of Sampling				Testing	1	
Sample No.				f Material		
Type of Material	+			ple At		
Sample No-1		Total Weight(pie At		
IS SIEVE	Wt. Of Retained(gms)		ve Weight Retained	Cumulative %	Retained	Cumulative % Passing
53	1	1	· · · · · · · · · · · · · · · · · · ·	50	Tetunicu	99.5
15	0	1		50		99.5
22.4	0	1		50		99.5
11.2	0	1		50		99.5
1.75	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
	nple No-2	Total Weight((ems)	30	2	33.0
IS SIEVE	Wt. Of Retained(gms)		ve Weight Retained	Cumulative %		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
San	nple No-3	Total Weight((gms)	!	2	
IS SIEVE	Wt. Of Retained(gms)		ve Weight Retained	Cumulative %	Retained	Cumulative % Passing
53	1.1	1.1		55		99.45
15	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:						
T	ested by		Checked by	,	Ra	ndom sample checked
10	, see at NJ	Спескей ву			Ka	monitoringic circincu
Authority's Engineer		Client			 	

		Nation	al Highway Authorit	v of India	•	-	
Name of Work		Tutton	ai Inghway Authorit	y of fixua			
Name of Client							
Name of Consultant	+						
Name of Contractor							
Trank of Contractor			Individual Gradatio	n			
Date of Sampling				f Testing			
Sample No.				of Material			
Type of Material				ple At			
	nple No-1	Total Weight(g		17			
IS SIEVE	Wt. Of Retained(gms)		e Weight Retained	Cumulative %		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	
	mple No-2	Total Weight(g	ems)		17		
IS SIEVE	Wt. Of Retained(gms)	Ü	Weight Retained	Cumulative %		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	
	mple No-3	Total Weight(c	ame)		17		
IS SIEVE	Wt. Of Retained(gms)	Total Weight(gms) Cumulative Weight Retained		Cumulative % Retained		Cumulative % Passing	
53	10	11	· Weight Retained	64.7059	Retained	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:		111		01.7007		33.2711	
Т	lested by		Checked by	,	ndom sample checked		
1	ested by		Checked by		Random sample checked		
Authoritala Engineer		Client					
Authority's Engineer				Random sample checked			
Tested by		Checked by			random sam	DIE CHECKEG	

		Notio	nal Highway Authorit	v of Ind	lia					
Name of Work		INAUO	nai riigiiway Authorit	y or mu	lia					
Name of Client										
Name of Consultant										
Name of Contractor										
Name of Contractor	Individual Gradation									
Date of Sampling			Date of		σ.	ı				
Sample No.			Source of		_					
					Tai					
Type of Material	ble No-1	Total Waight		ple At		5				
IS SIEVE	Wt. Of Retained(gms)	Total Weight(re Weight Retained	T 4	Cumulative %	-	Cumulative % Passing			
53	4	4 Cumulauv	e weight Retained	80	Junuauve 70	Retailleu	20			
	0	4		80			20			
22.4	0	4		80			20			
11.2	0	4		80			20			
		4								
4.75	0	4		80			20			
2.36	0	4		80			20			
0.6	0	4		80			20			
0.075	0	4 T. (1337 : 147	. ,	80		I _c	20			
	ole No-2				2 14 0/3	5	C 14: 0/P :			
IS SIEVE	Wt. Of Retained(gms)		e Weight Retained	1	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			
	100	0		0.075			0			
	ole No-3	Total Weight(gms)			5					
IS SIEVE	Wt. Of Retained(gms)	Cumulativ	e Weight Retained	(Cumulative %	Retained	Cumulative % Passing			
	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			
	0	4.05		81			19			
	0	4.05		81			19			
	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					e checked			

	•	Notic-	al Highway Authority	y of India	•	•	
Name of Words	1	Nation	ai Highway Authorit	y of Ingla			
Name of Work							
Name of Client							
Name of Consultant							
Name of Contractor			T P 11 10 14				
D + 40 H	T		Individual Gradatio		1		
Date of Sampling	Date of Testing						
Sample No.				f Material			
Type of Material	LNI	T + 1337 : 146		ple At	100		
	ple No-1	Total Weight(g		100		Constation O/ Desire	
IS SIEVE	Wt. Of Retained(gms)		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	Lina	30	
	ple No-2	Total Weight(gms) 100				T =	
IS SIEVE	Wt. Of Retained(gms)		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	
Sam	ple No-3	Total Weight(g	ms)		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:							
Te	sted by		Checked by		Random sample checked		
10	see uj		Circuity		Ixan	aom sumpre encencu	
Authority's Engineer		Client					
Tested by		Checked by			Random sample checked		
105ica by		CIRCING Dy			rankomsampi	CORCRO	

National Highway Authority of India												
Name of	Work	rk										
Name of	Client											
Name of C	onsultant											
Name of C	ontractor											
	WMM											
						AS PER IS 23	386 Part IV					
IS SIEVE	Aver	age of Inc Passir		al % % Taken for design					Combined %	MID	SPECIFICATION LIMIT AS PER MORTH	
ISSIEVE	40 MM	20 MM	10	Duct		40 MM 20 MM 10 MM Dust			Passing	LIMIT	Lawan	Highou
	40 MM	20 1/11/1	MM	Dust	10	40	10	40			Lower High	Higher
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:	narks:											
	Tes	sted by				Checked by			Randoms	ample che	ecked	
Authority's I	Engineer					Client						
Tested by Checked by Random sample checked												

	National Highway Authority of India								
Nam	ne of Work								
Nam	e of Client								
Name o	of Consultant								
Name (of Contractor								
		WMM COMBIEND	GRADATION			Date:	1/1/2000		
40mm; 10	20mm; 40	10mm: 10	Stone Dust: 40	Total Wei	ght	560			
IS SIEVE	Wt. Of	Cumulative Weight Retained	Cumulative % Retained	Cumulative %			TION LIMIT AS MORTH		
	Retained (gms)	Retained	Retained	Passing	LIMIT	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:	Remarks:								
	Tested b	y	Check	ed by	I	Random sample	checked		
Authority's I	Engineer			Client	Client				
Tested by			Checked by		Random s	ample checked			

	Nat	tional Highway Authority	of India					
Name of Work		· · · · · · · · · · · · · · · · · · ·						
Name of Client								
Name of Consultant								
Name of Contractor								
	P	ASSING 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				
	P	ASSING 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				
		ASSING OF % 10 MM						
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				
		ASSING OF % STONE						
IS SIEVE	Sample no- 1	Sample no- 2	Sample no- 3	Average Passing of %				
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			00	0				
0	0	0	0	0				
Remarks:								
Tested	by	Che	cked by	Random sample checked				
R & C INFRAENGI	NEERS PVT LTD	Authority	Authority's Engineer Client					