



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

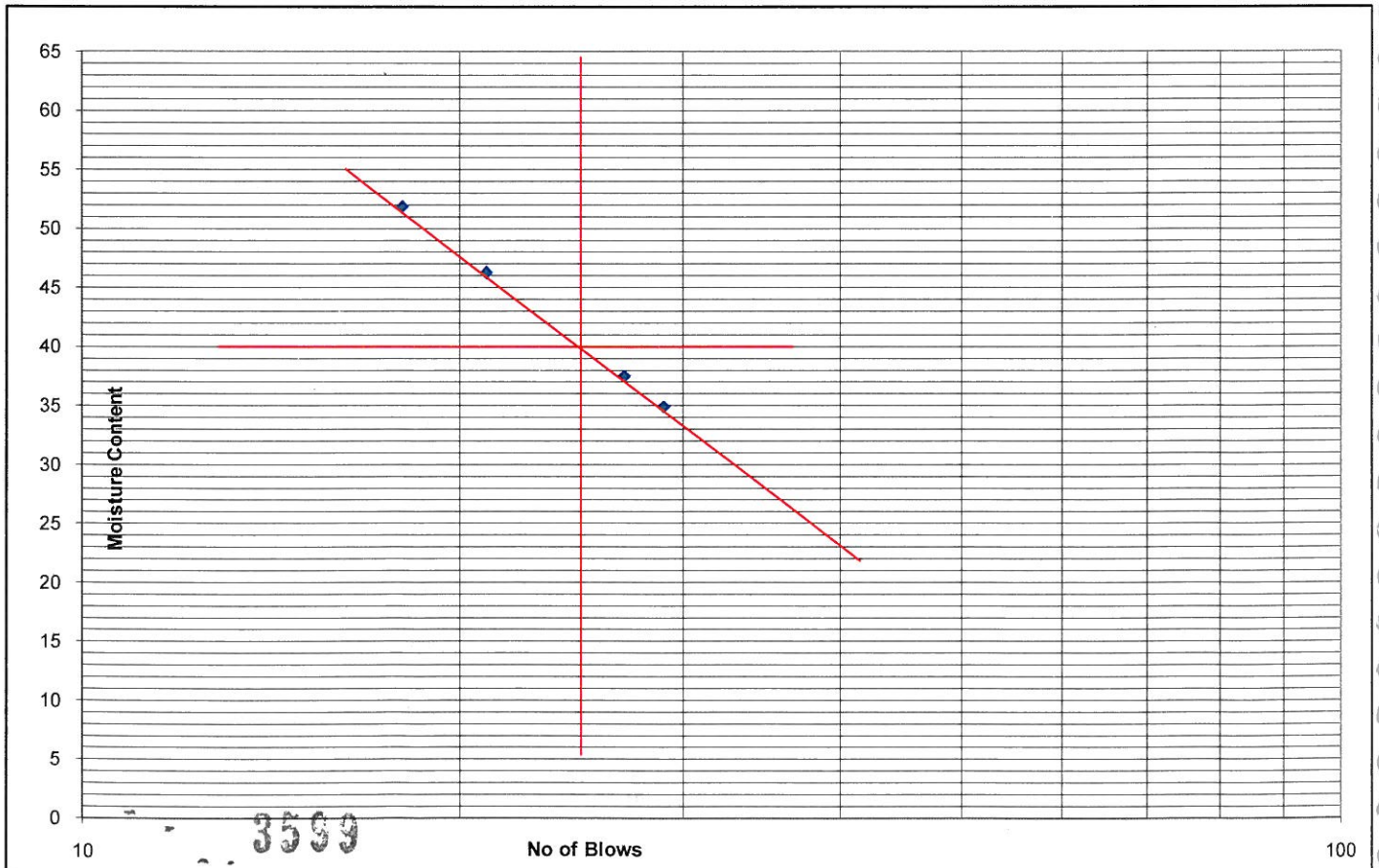
IS : 2720 (Part -5)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : UDS
 Location : BH-2(Markanda River-Ambala)
 Depth : 13.5m
 Date Of Testing : 25.09.12
 Sampled by : T.K.Das
 Tested by : D.Mohanty

Number of Blows	29	27	21	18	Plastic Limit	
Container No.	D37	D38	D39	D40	D41	D42
Container Weight (gm) (W1)	36.57	32.26	31.04	30.5	34.97	35.55
Container + Wt. of wet soil (gm) (W2)	91.92	109.60	111.26	117.37	98.91	98.14
Wt of Container + Wt. of oven dry soil (gm) (W3)	77.60	88.51	85.90	87.70	87.80	87.75
Wt. Of water (gm) (W2-W1)-(W3-W1)	14.32	21.09	25.36	29.67	11.12	10.39
Wt. of oven dry soil (gm) (W3-W1)	41.03	56.25	54.86	57.20	52.83	52.20
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	34.91	37.49	46.23	51.88	21.04	19.91

Result Summary

Liquid Limit (WL)	40	%
Plastic Limit (Wp)	20	%
Plasticity Index (Ip)	20	%





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DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

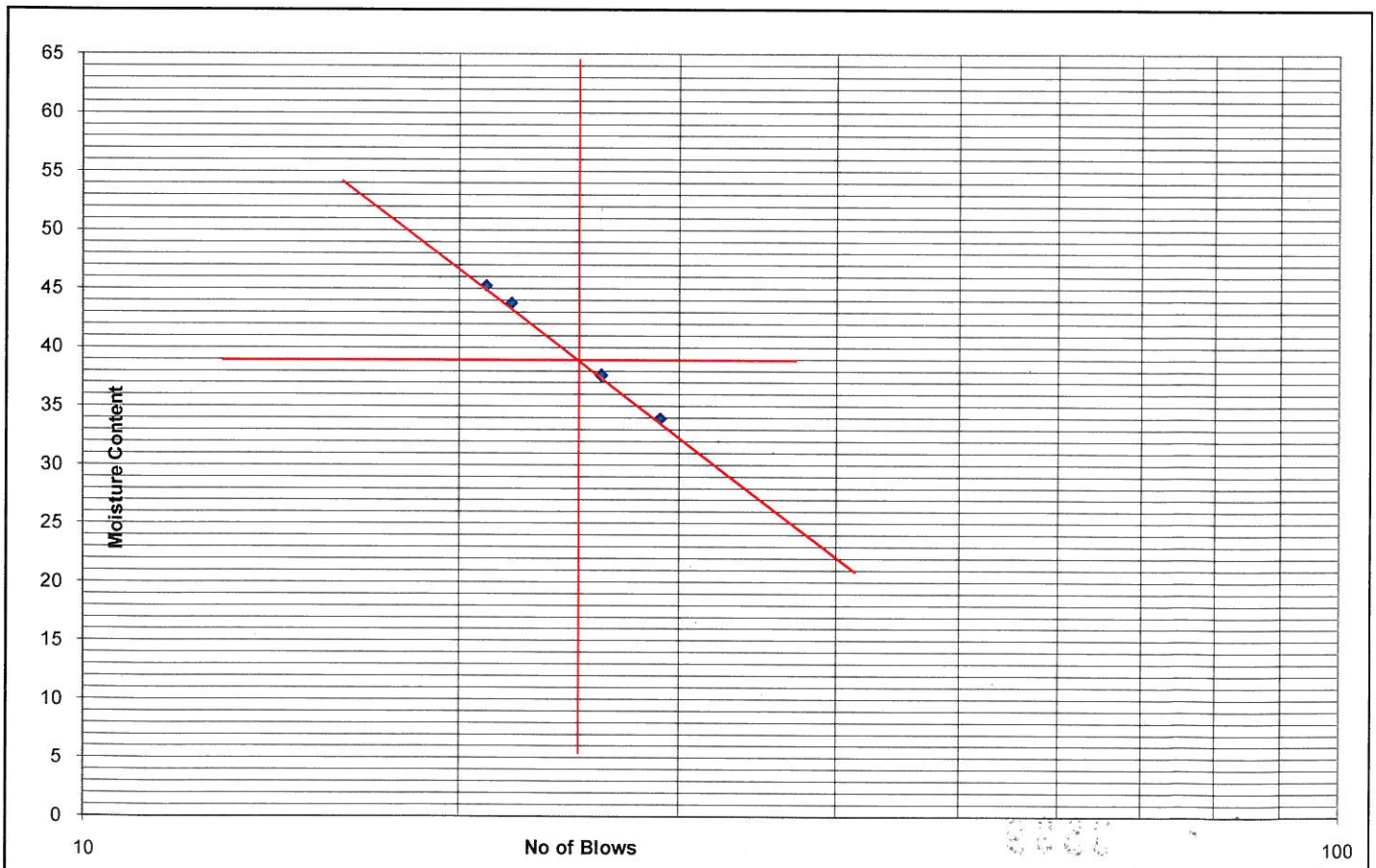
IS : 2720 (Part -5)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : SPT
 Location : BH-2(Markanda River-Ambala)
 Depth : 15.0m
 Date Of Testing : 25.09.12
 Sampled by : T.K.Das
 Tested by : D.Mohanty

Number of Blows	29	26	22	21	Plastic Limit	
	D7	D8	D9	D10	D11	D12
Container No.	D7	D8	D9	D10	D11	D12
Container Weight (gm) (W1)	35.82	31.27	34.13	32.45	36.48	37.96
Container + Wt. of wet soil (gm) (W2)	91.81	109.64	109.18	113.48	97.74	97.62
Wt of Container + Wt. of oven dry soil (gm) (W3)	77.62	88.21	86.32	88.23	87.59	88.04
Wt. Of water (gm) (W2-W1)-(W3-W1)	14.19	21.43	22.86	25.25	10.15	9.58
Wt. of oven dry soil (gm) (W3-W1)	41.80	56.94	52.19	55.78	51.11	50.08
Moisture Content (%)= $\frac{(W2-W1)-(W3-W1)}{(W3-W1)} \times 100$	33.95	37.64	43.79	45.27	19.86	19.13

Result Summary

Liquid Limit (WL)	39	%
Plastic Limit (Wp)	19	%
Plasticity Index (Ip)	20	%



3600

DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

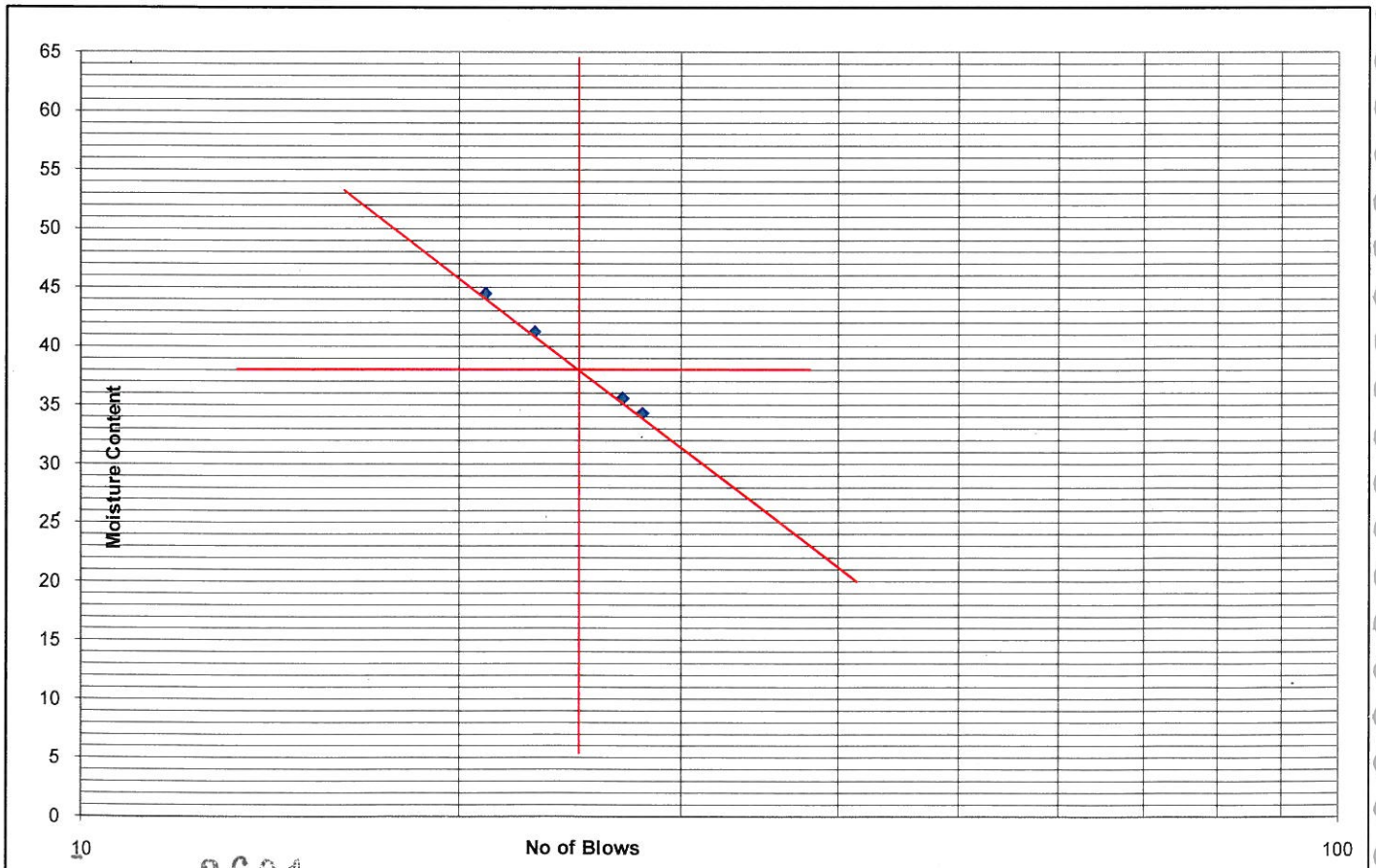
IS : 2720 (Part -5)

Client	: DFCC		Date Of Testing	: 25.09.12
Project Name	: G.I For 3 Nos. Important Bridges		Sampled by	: T.K.Das
Type of Sample	: UDS		Tested by	: D.Mohanty
Location	: BH-2(Markanda River-Ambala)			
Depth	: 16.5m			

Number of Blows	28	27	23	21	Plastic Limit	
Container No.	D25	D26	D27	D28	D29	D30
Container Weight (gm) (W1)	33.58	34.18	32.29	34.64	36.84	30.87
Container + Wt. of wet soil (gm) (W2)	92.77	107.43	108.64	112.11	96.91	97.01
Wt of Container + Wt. of oven dry soil (gm) (W3)	77.65	88.21	86.35	88.27	87.42	87.87
Wt. Of water (gm) (W2-W1)-(W3-W1)	15.12	19.21	22.29	23.84	9.49	9.14
Wt. of oven dry soil (gm) (W3-W1)	44.07	54.03	54.06	53.63	50.58	57.00
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	34.32	35.56	41.24	44.46	18.76	16.04

Result Summary

Liquid Limit (WL)	38	%
Plastic Limit (Wp)	17	%
Plasticity Index (Ip)	21	%



3601



DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

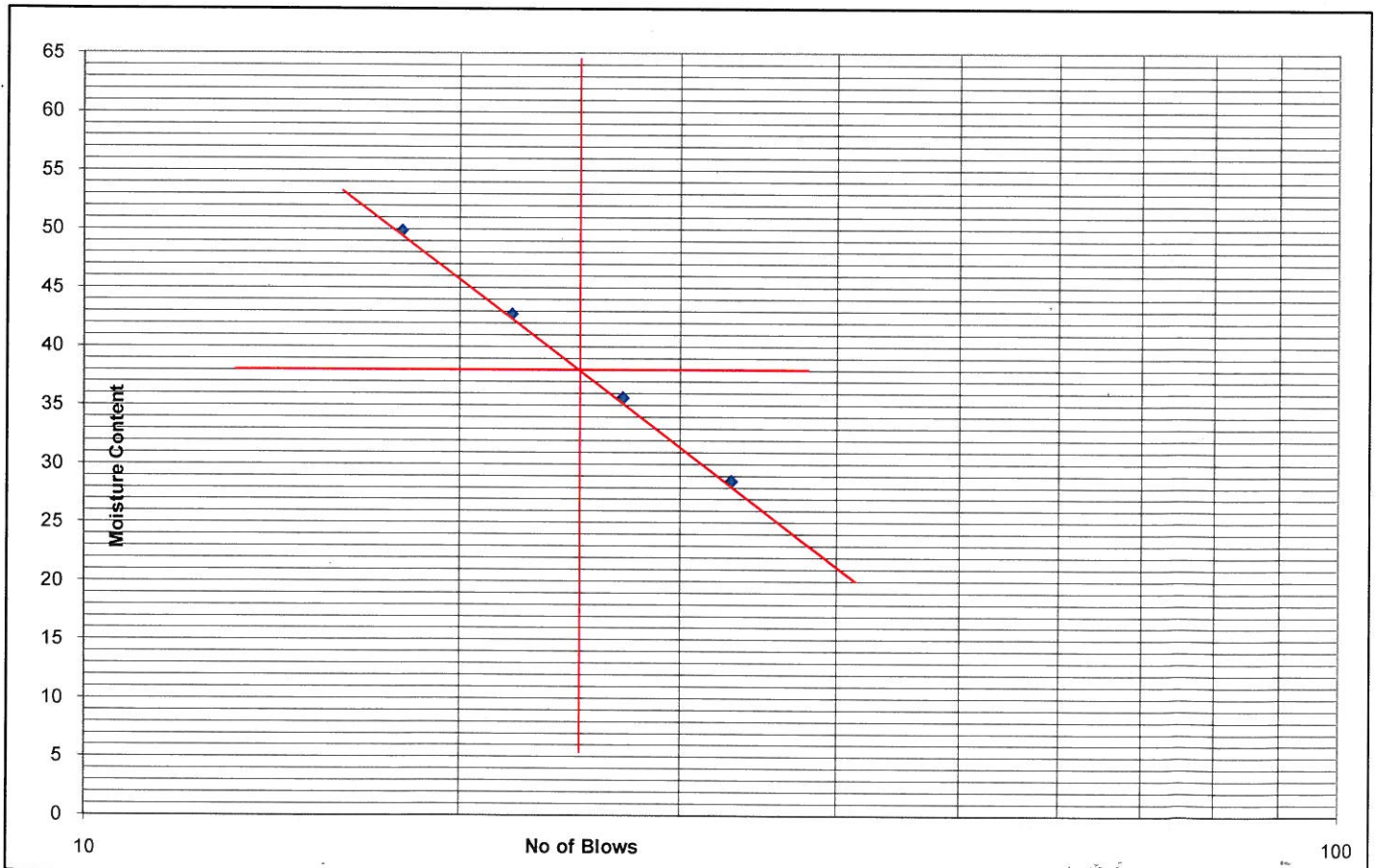
IS : 2720 (Part -5)

Client	: DFCC	Date Of Testing	: 25.09.12
Project Name	: G.I For 3 Nos. Important Bridges	Sampled by	: T.K.Das
Type of Sample	: SPT	Tested by	: D.Mohanty
Location	: BH-2(Markanda River-Ambala)		
Depth	: 18.0m		

Number of Blows	33	27	22	18	Plastic Limit	
Container No.	D23	D24	D5	D6	D39	D40
Container Weight (gm) (W1)	33.72	34.86	34.68	35.29	31.04	30.5
Container + Wt. of wet soil (gm) (W2)	90.32	107.37	108.55	114.51	97.38	97.82
Wt of Container + Wt. of oven dry soil (gm) (W3)	77.76	88.32	86.41	88.15	87.64	87.97
Wt. Of water (gm) (W2-W1)-(W3-W1)	12.57	19.05	22.13	26.36	9.74	9.85
Wt. of oven dry soil (gm) (W3-W1)	44.04	53.46	51.73	52.86	56.60	57.47
Moisture Content (%)= $(W2-W1)-(W3-W1)]/(W3-W1) \times 100$	28.54	35.63	42.78	49.87	17.21	17.13

Result Summary

Liquid Limit (WL)	39	%
Plastic Limit (Wp)	17	%
Plasticity Index (Ip)	22	%



3302

DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

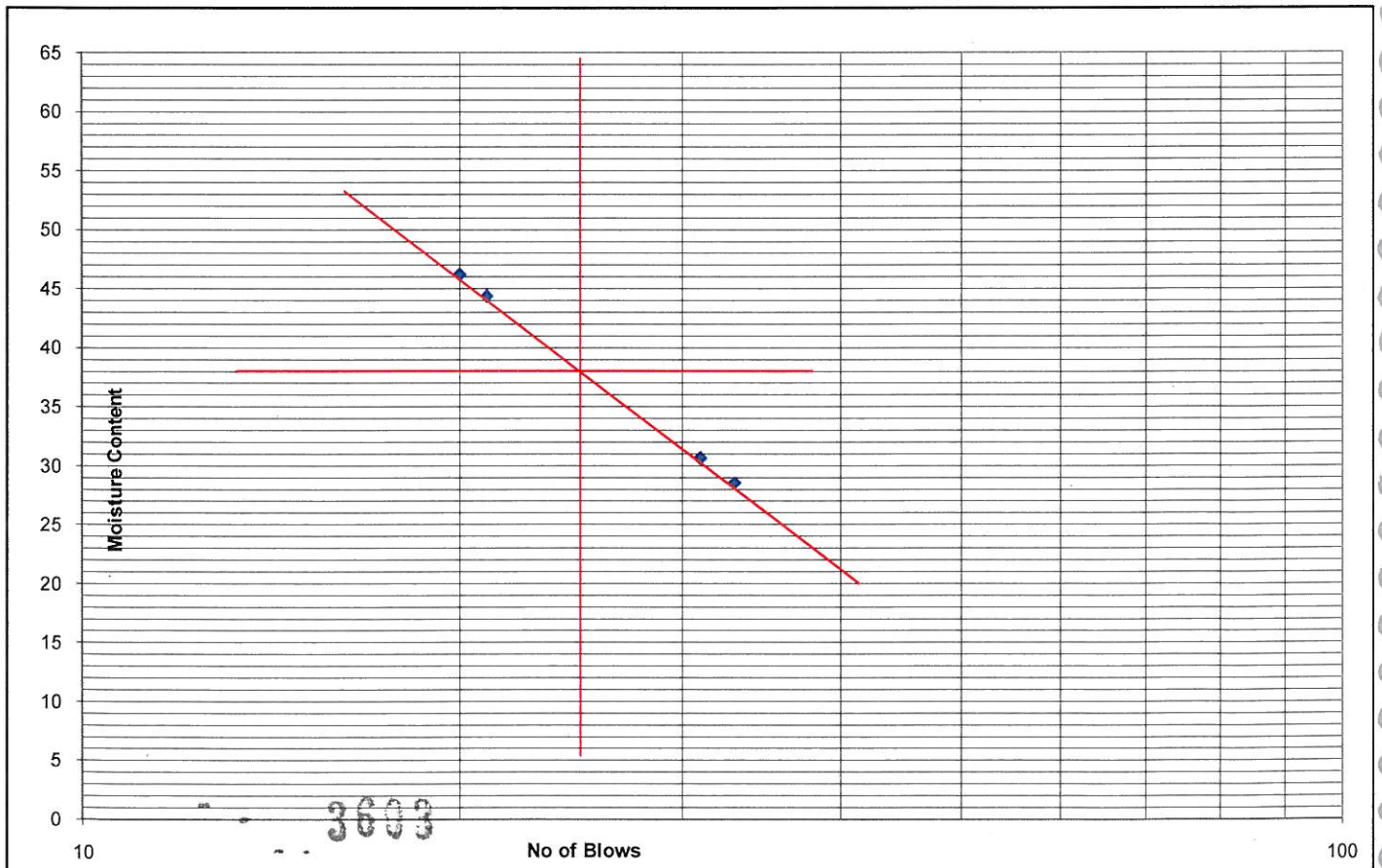
IS : 2720 (Part -5)

Client	: DFCC	Date Of Testing	: 25.09.12
Project Name	: G.I For 3 Nos. Important Bridges	Sampled by	: T.K.Das
Type of Sample	: SPT	Tested by	: D.Mohanty
Location	: BH-2(Markanda River-Ambala)		
Depth	: 21.0m		

Number of Blows	33	31	21	20	Plastic Limit	
	B13	B14	B15	B16	B17	B18
Container No.	B13	B14	B15	B16	B17	B18
Container Weight (gm) (W1)	34.46	33.59	32.1	31.29	30.59	32.24
Container + Wt. of wet soil (gm) (W2)	90.26	105.23	110.85	114.44	98.45	98.65
Wt of Container + Wt. of oven dry soil (gm) (W3)	77.86	88.43	86.66	88.17	87.71	88.55
Wt. Of water (gm) (W2-W1)-(W3-W1)	12.40	16.80	24.19	26.27	10.74	10.10
Wt. of oven dry soil (gm) (W3-W1)	43.40	54.84	54.56	56.88	57.12	56.31
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	28.57	30.64	44.33	46.18	18.81	17.94

Result Summary

Liquid Limit (WL)	38	%
Plastic Limit (Wp)	18	%
Plasticity Index (Ip)	20	%





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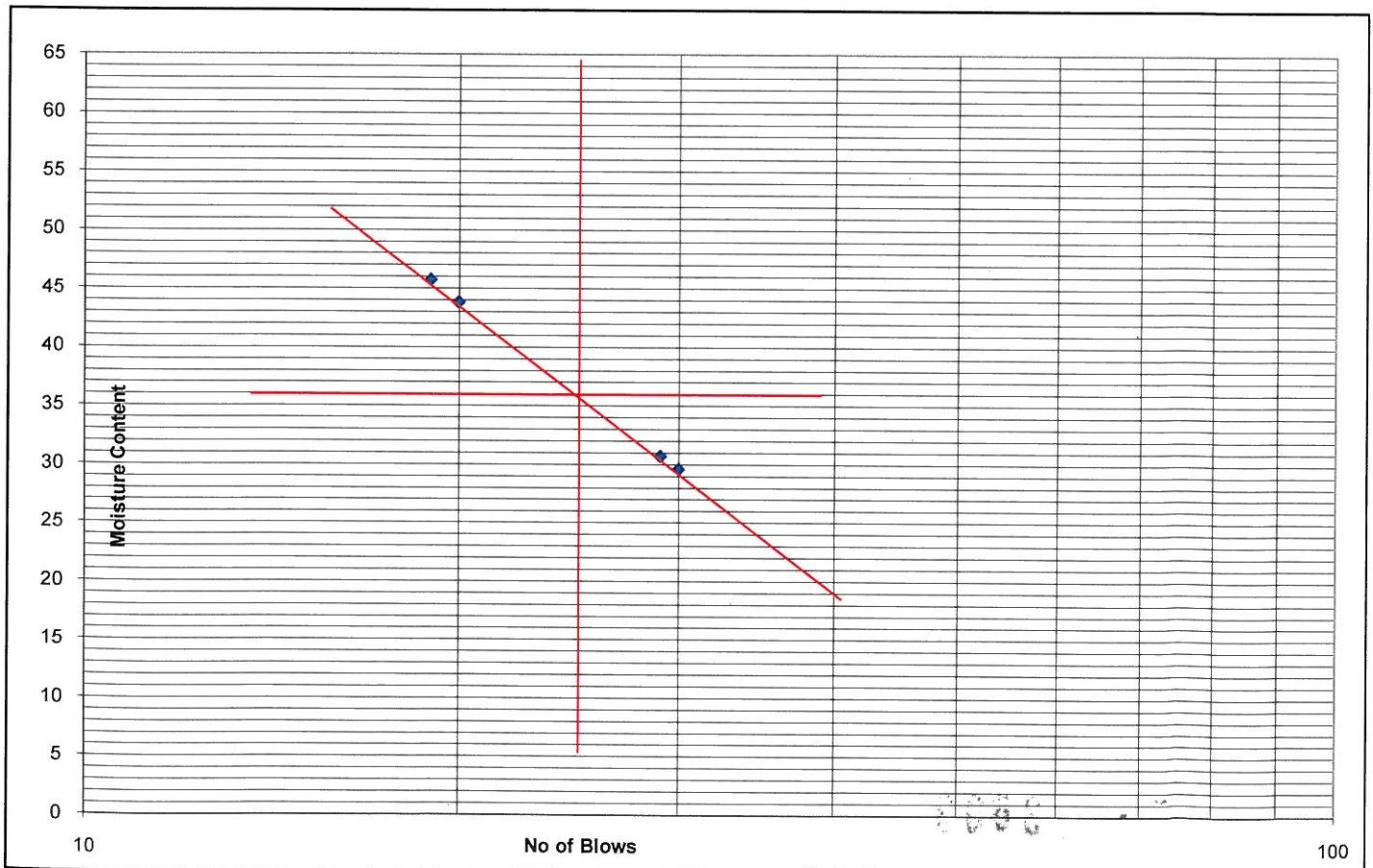
IS : 2720 (Part -5)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : UDS
 Location : BH-2(Markanda River-Ambala)
 Depth : 22.5m
 Date Of Testing : 25.09.12
 Sampled by : T.K.Das
 Tested by : D.Mohanty

Number of Blows	30	29	20	19	Plastic Limit	
Container No.	B25	B26	B27	B28	B29	B30
Container Weight (gm) (W1)	35.22	33.36	31.2	39.42	34.86	30.76
Container + Wt. of wet soil (gm) (W2)	90.39	105.32	110.89	110.44	97.15	98.66
Wt of Container + Wt. of oven dry soil (gm) (W3)	77.80	88.43	86.61	88.16	87.84	88.60
Wt. Of water (gm) (W2-W1)-(W3-W1)	12.59	16.90	24.28	22.28	9.32	10.06
Wt. of oven dry soil (gm) (W3-W1)	42.58	55.07	55.41	48.74	52.98	57.84
Moisture Content (%)= $((W2-W1)-(W3-W1))/(W3-W1) \times 100$	29.58	30.69	43.81	45.72	17.59	17.40

Result Summary

Liquid Limit (WL)	36	%
Plastic Limit (Wp)	17	%
Plasticity Index (Ip)	19	%



3604

DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

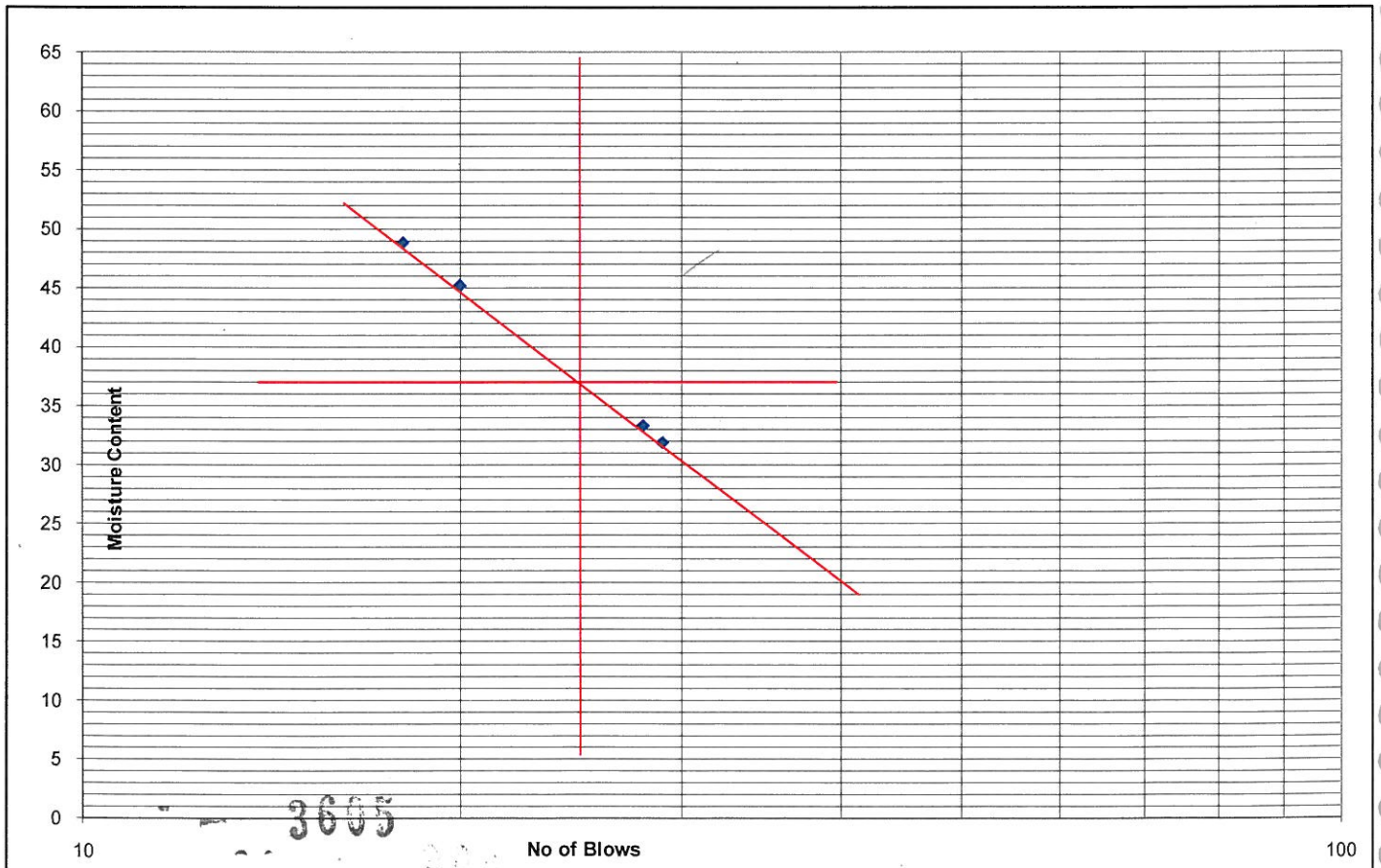
IS : 2720 (Part -5)

Client	:	DFCC	Date Of Testing	:	25.09.12
Project Name	:	G.I For 3 Nos. Important Bridges	Sampled by	:	T.K.Das
Type of Sample	:	SPT	Tested by	:	D.Mohanty
Location	:	BH-2(Markanda River-Ambala)			
Depth	:	24.0m			

Number of Blows	29	28	20	18	Plastic Limit	
	B1	B2	B3	B4	B5	B6
Container No.	B1	B2	B3	B4	B5	B6
Container Weight (gm) (W1)	34.29	33.64	36.7	32.65	31.26	30.57
Container + Wt. of wet soil (gm) (W2)	91.89	106.79	109.31	115.46	98.45	89.02
Wt of Container + Wt. of oven dry soil (gm) (W3)	77.96	88.51	86.70	88.28	87.74	80.95
Wt. Of water (gm) (W2-W1)-(W3-W1)	13.92	18.28	22.60	27.18	10.71	8.07
Wt. of oven dry soil (gm) (W3-W1)	43.67	54.87	50.00	55.63	56.48	50.38
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	31.88	33.31	45.20	48.87	18.97	16.02

Result Summary

Liquid Limit (WL)	37	%
Plastic Limit (Wp)	17	%
Plasticity Index (Ip)	20	%





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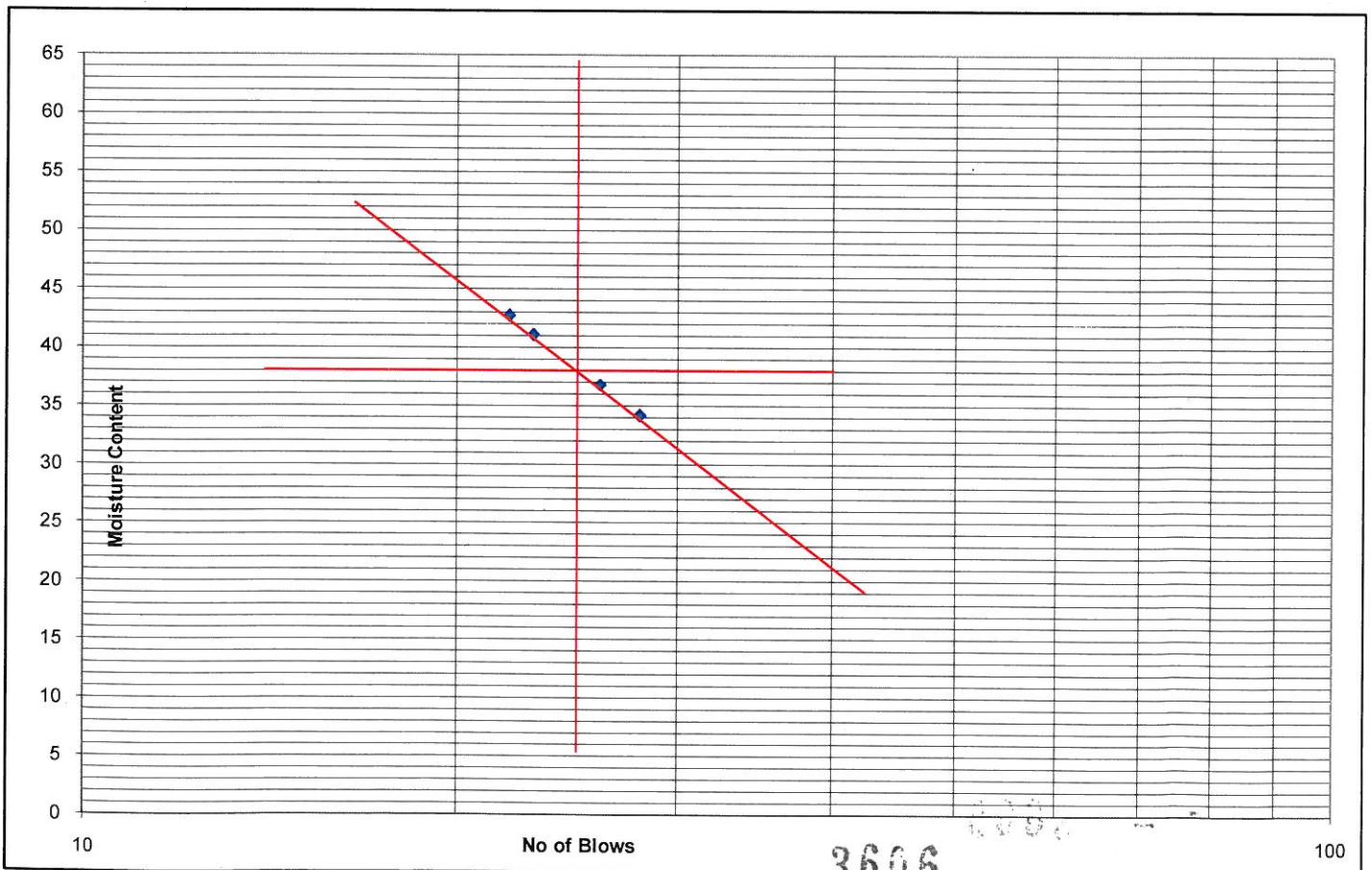
IS : 2720 (Part -5)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : UDS
 Location : BH-2(Markanda River-Ambala)
 Depth : 25.5m
 Date Of Testing : 25.09.12
 Sampled by : T.K.Das
 Tested by : D.Mohanty

Number of Blows	28	26	23	22	Plastic Limit	
Container No.	B19	B20	B21	B22	B23	B24
Container Weight (gm) (W1)	31.66	35.46	33.74	34.61	36.87	32.54
Container + Wt. of wet soil (gm) (W2)	93.75	108.55	106.52	111.41	96.77	89.50
Wt of Container + Wt. of oven dry soil (gm) (W3)	77.93	88.89	85.34	88.43	87.71	81.16
Wt. Of water (gm) (W2-W1)-(W3-W1)	15.82	19.67	21.18	22.98	9.06	8.34
Wt. of oven dry soil (gm) (W3-W1)	46.27	53.43	51.60	53.82	50.84	48.62
Moisture Content (%)= $\frac{(W2-W1)-(W3-W1)}{(W3-W1)} \times 100$	34.18	36.81	41.05	42.71	17.83	17.15

Result Summary

Liquid Limit (WL)	38	%
Plastic Limit (Wp)	17	%
Plasticity Index (Ip)	21	%



3606



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DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

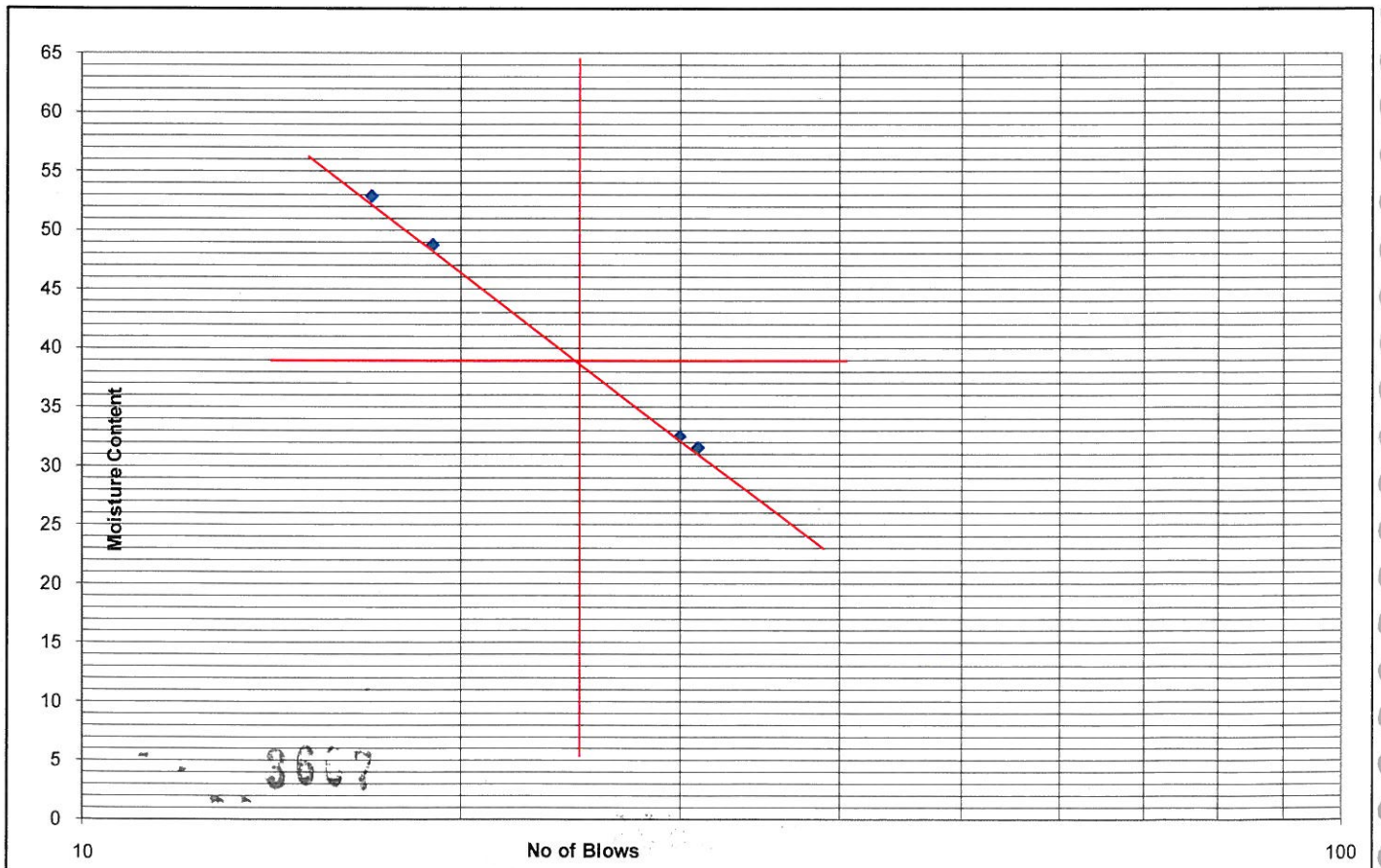
IS : 2720 (Part -5)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : UDS
 Location : BH-2(Markanda River-Ambala)
 Depth : 28.5m
 Date Of Testing : 25.09.12
 Sampled by : T.K.Das
 Tested by : D.Mohanty

Number of Blows	31	30	19	17	Plastic Limit	
Container No.	B7	B8	B9	B10	B11	B12
Container Weight (gm) (W1)	36.85	32.71	31.43	34.52	35.81	33.24
Container + Wt. of wet soil (gm) (W2)	90.98	107.12	111.66	117.26	98.59	90.47
Wt of Container + Wt. of oven dry soil (gm) (W3)	78.00	88.85	85.37	88.65	87.96	81.49
Wt. Of water (gm) (W2-W1)-(W3-W1)	12.98	18.26	26.29	28.60	10.62	8.98
Wt. of oven dry soil (gm) (W3-W1)	41.15	56.14	53.94	54.13	52.15	48.25
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	31.54	32.53	48.73	52.84	20.37	18.61

Result Summary

Liquid Limit (WL)	39	%
Plastic Limit (Wp)	19	%
Plasticity Index (Ip)	20	%





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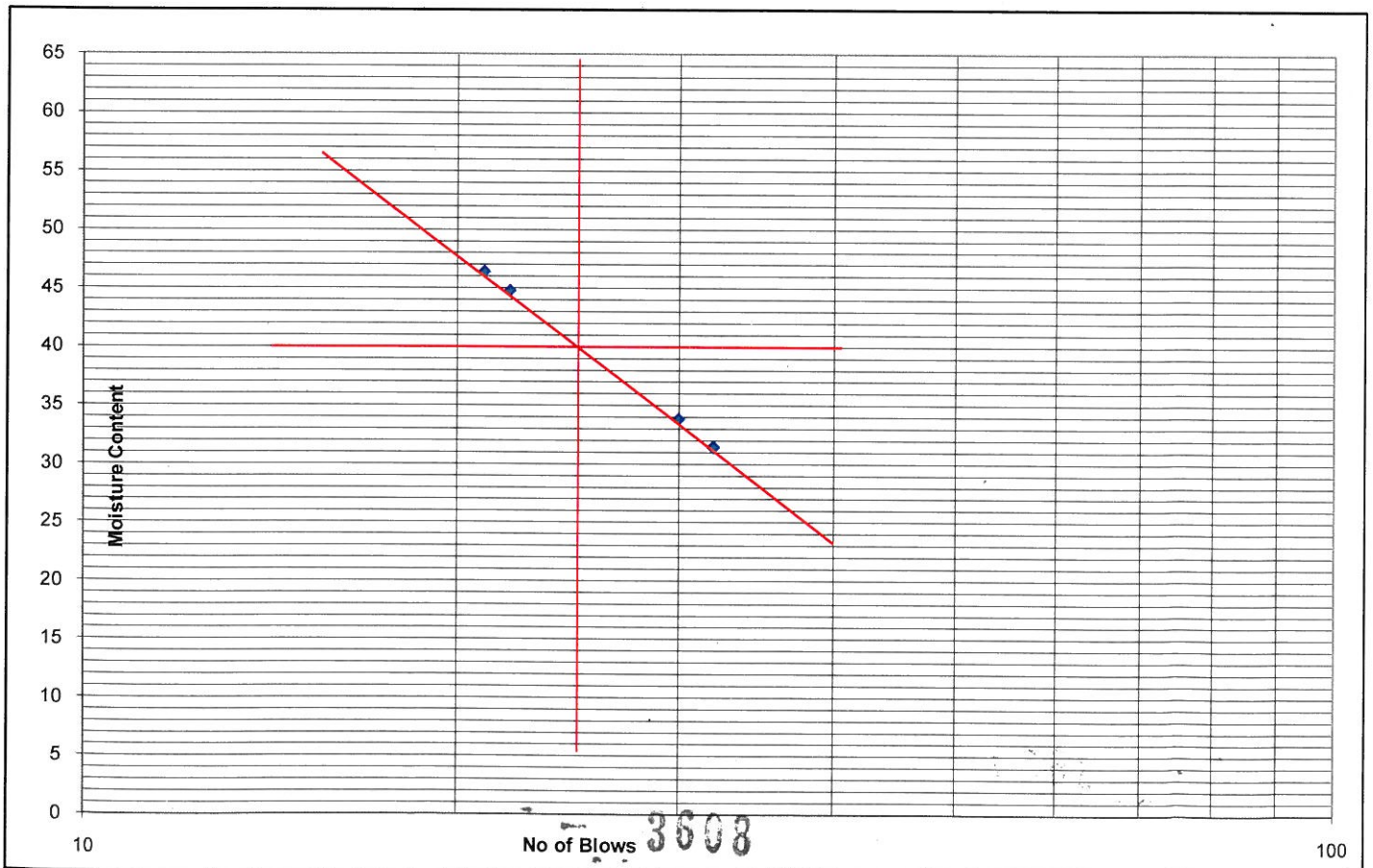
IS : 2720 (Part -5)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : SPT
 Location : BH-2(Markanda River-Ambala)
 Depth : 30.0m
 Date Of Testing : 25.09.12
 Sampled by : T.K.Das
 Tested by : D.Mohanty

Number of Blows	32	30	22	21	Plastic Limit	
Container No.	B37	B38	B39	B40	B41	B42
Container Weight (gm) (W1)	33.26	32.74	31.98	30.5	34.67	35.55
Container + Wt. of wet soil (gm) (W2)	92.51	107.69	109.07	115.76	98.61	90.21
Wt of Container + Wt. of oven dry soil (gm) (W3)	78.34	88.74	85.22	88.73	87.98	81.55
Wt. Of water (gm) (W2-W1)-(W3-W1)	14.17	18.95	23.85	27.03	10.63	8.66
Wt. of oven dry soil (gm) (W3-W1)	45.08	56.00	53.24	58.23	53.31	46.00
Moisture Content (%)= $[(W2-W1)-(W3-W1)]/(W3-W1) \times 100$	31.44	33.84	44.79	46.43	19.94	18.83

Result Summary

Liquid Limit (WL)	40	%
Plastic Limit (Wp)	19	%
Plasticity Index (Ip)	21	%





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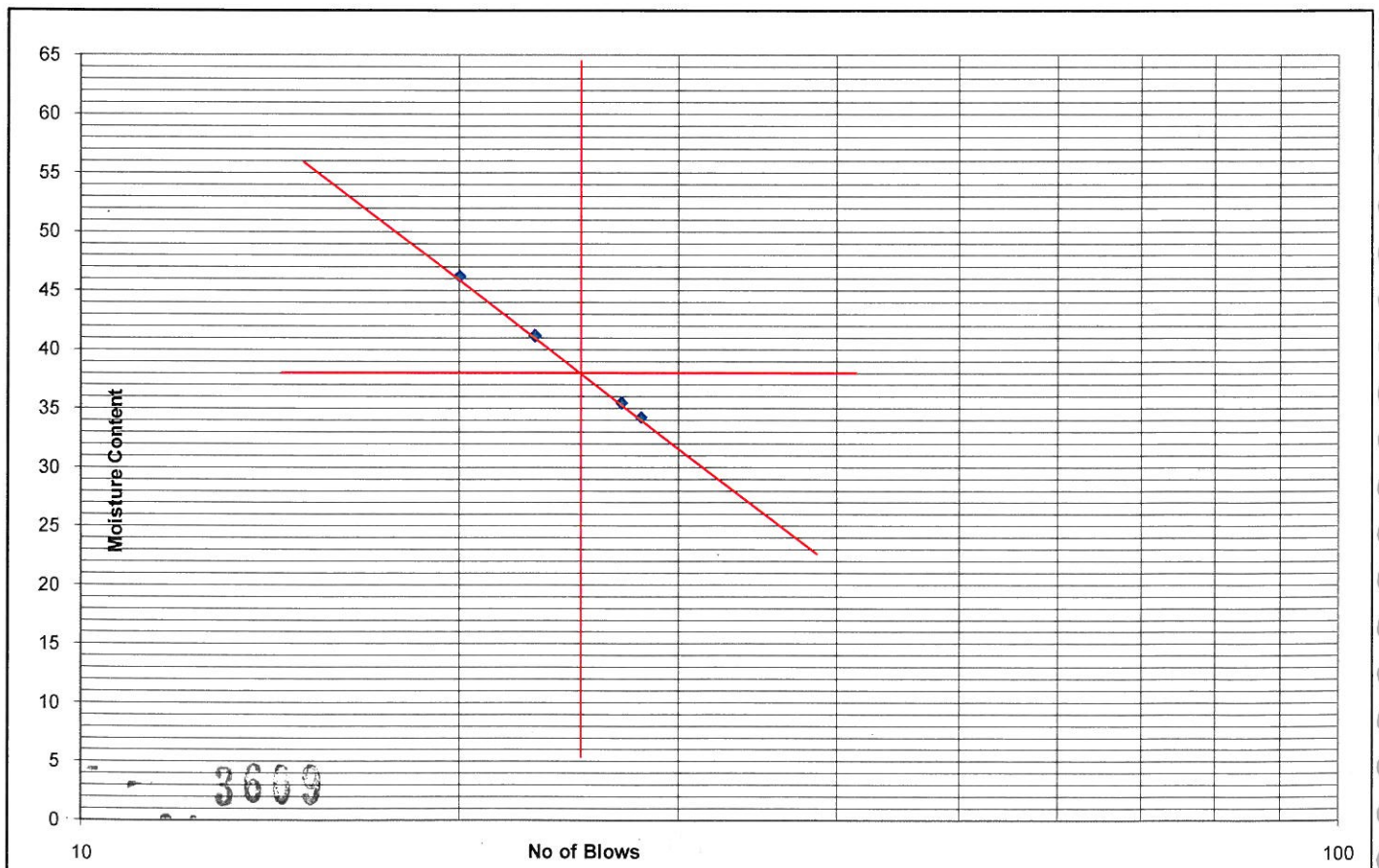
IS : 2720 (Part -5)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : UDS
 Location : BH-2(Markanda River-Ambala)
 Depth : 31.5m
 Date Of Testing : 25.09.12
 Sampled by : T.K.Das
 Tested by : D.Mohanty

Number of Blows	28	27	23	20	Plastic Limit	
Container No.	B31	B32	B33	B34	B35	B36
Container Weight (gm) (W1)	30.8	34.1	32.47	31.56	35.65	30.99
Container + Wt. of wet soil (gm) (W2)	94.70	107.98	107.08	115.23	97.80	91.02
Wt of Container + Wt. of oven dry soil (gm) (W3)	78.40	88.64	85.32	88.79	87.87	81.89
Wt. Of water (gm) (W2-W1)-(W3-W1)	16.31	19.34	21.76	26.45	9.93	9.13
Wt. of oven dry soil (gm) (W3-W1)	47.60	54.54	52.85	57.23	52.22	50.90
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	34.26	35.46	41.18	46.21	19.02	17.94

Result Summary

Liquid Limit (WL)	38	%
Plastic Limit (Wp)	18	%
Plasticity Index (Ip)	20	%





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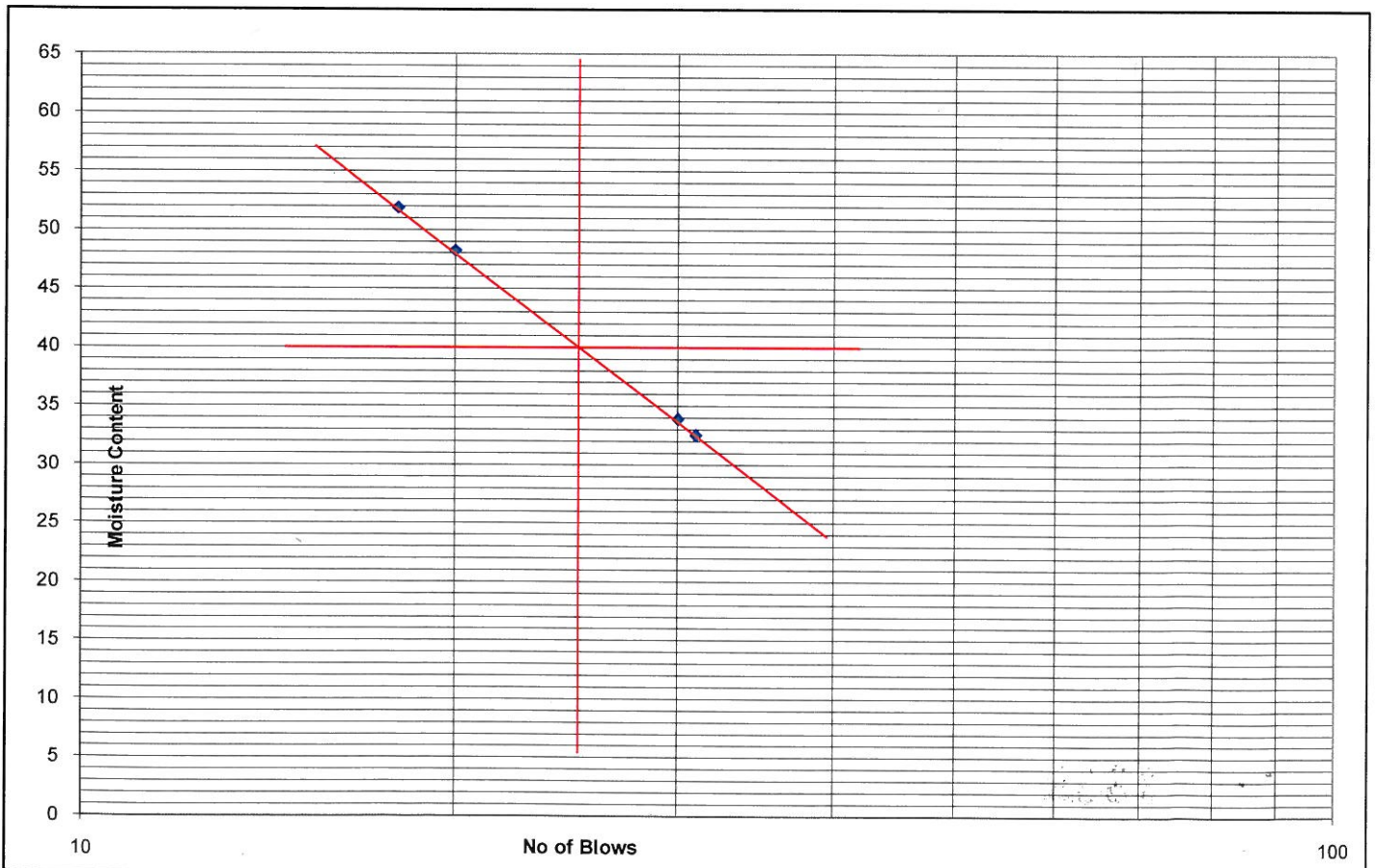
IS : 2720 (Part -5)

Client	: DFCC	Date Of Testing	: 25.09.12
Project Name	: G.I For 3 Nos. Important Bridges	Sampled by	: T.K.Das
Type of Sample	: SPT	Tested by	: D.Mohanty
Location	: BH-2(Markanda River-Ambala)		
Depth	: 33.0m		

Number of Blows	31	30	20	18	Plastic Limit	
	E1	E2	E3	E4	E5	E6
Container No.						
Container Weight (gm) (W1)	30.48	35.24	37.88	34.61	35.8	32.51
Container + Wt. of wet soil (gm) (W2)	93.87	106.82	108.01	116.83	98.74	91.75
Wt of Container + Wt. of oven dry soil (gm) (W3)	78.32	88.71	85.19	88.75	88.09	81.95
Wt. Of water (gm) (W2-W1)-(W3-W1)	15.55	18.11	22.81	28.08	10.65	9.80
Wt. of oven dry soil (gm) (W3-W1)	47.84	53.47	47.31	54.14	52.29	49.44
Moisture Content (%)= $[(W2-W1)-(W3-W1)]/(W3-W1) \times 100$	32.51	33.86	48.22	51.87	20.37	19.82

Result Summary

Liquid Limit (WL)	40	%
Plastic Limit (Wp)	20	%
Plasticity Index (Ip)	20	%



3610



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DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

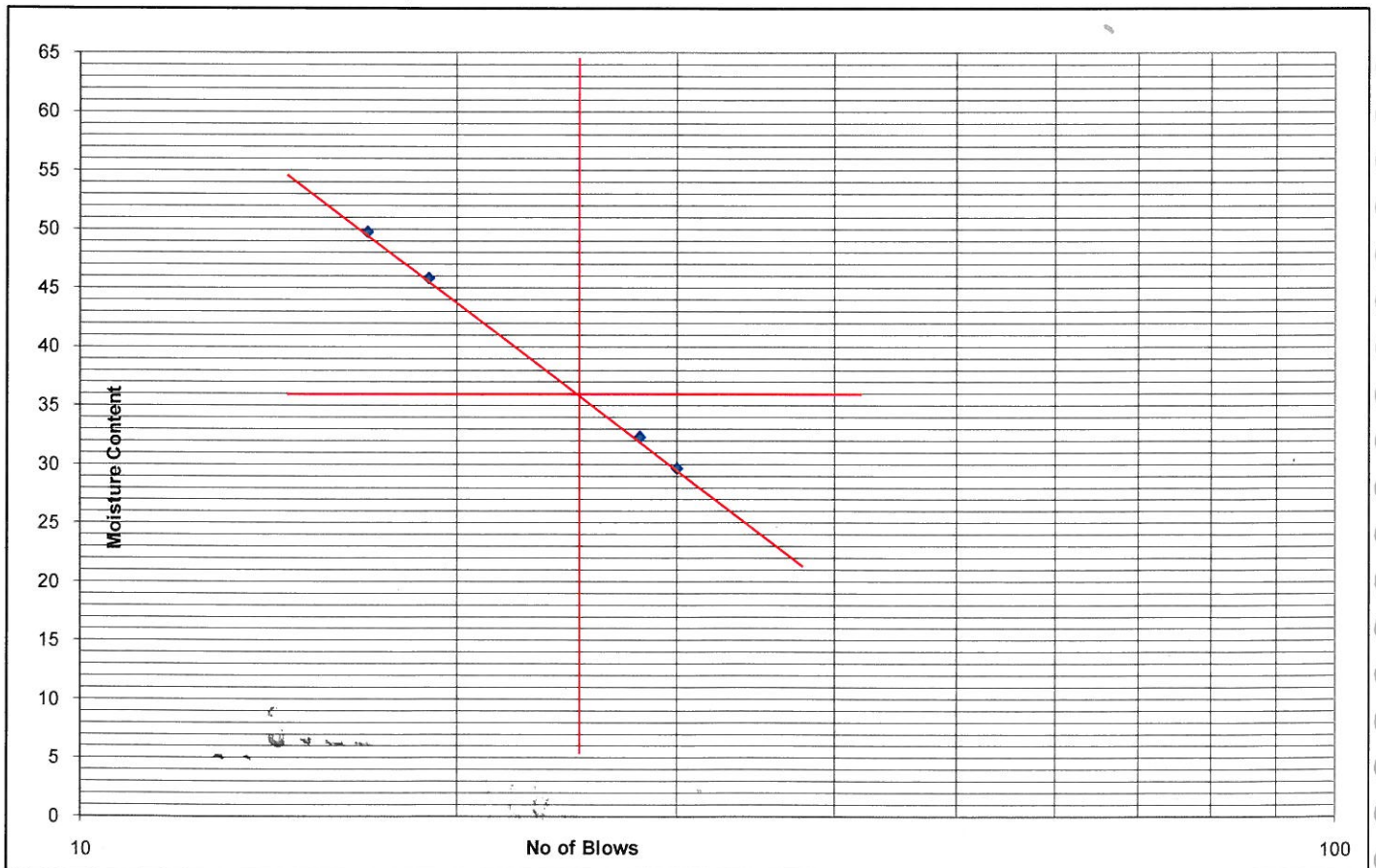
IS : 2720 (Part -5)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : SPT
 Location : BH-2(Markanda River-Ambala)
 Depth : 37.5m
 Date Of Testing : 25.09.12
 Sampled by : T.K.Das
 Tested by : D.Mohanty

Number of Blows	30	28	19	17	Plastic Limit	
Container No.	E13	E14	E15	E16	E17	E18
Container Weight (gm) (W1)	32.58	37.21	33.14	35.42	31.85	36.97
Container + Wt. of wet soil (gm) (W2)	92.24	105.34	109.19	115.81	99.10	90.20
Wt of Container + Wt. of oven dry soil (gm) (W3)	78.59	88.71	85.29	89.10	88.15	82.30
Wt. Of water (gm) (W2-W1)-(W3-W1)	13.65	16.62	23.90	26.71	10.94	7.90
Wt. of oven dry soil (gm) (W3-W1)	46.01	51.50	52.15	53.68	56.30	45.33
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	29.68	32.28	45.84	49.76	19.43	17.42

Result Summary

Liquid Limit (WL)	36	%
Plastic Limit (Wp)	18	%
Plasticity Index (Ip)	18	%



3611



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DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

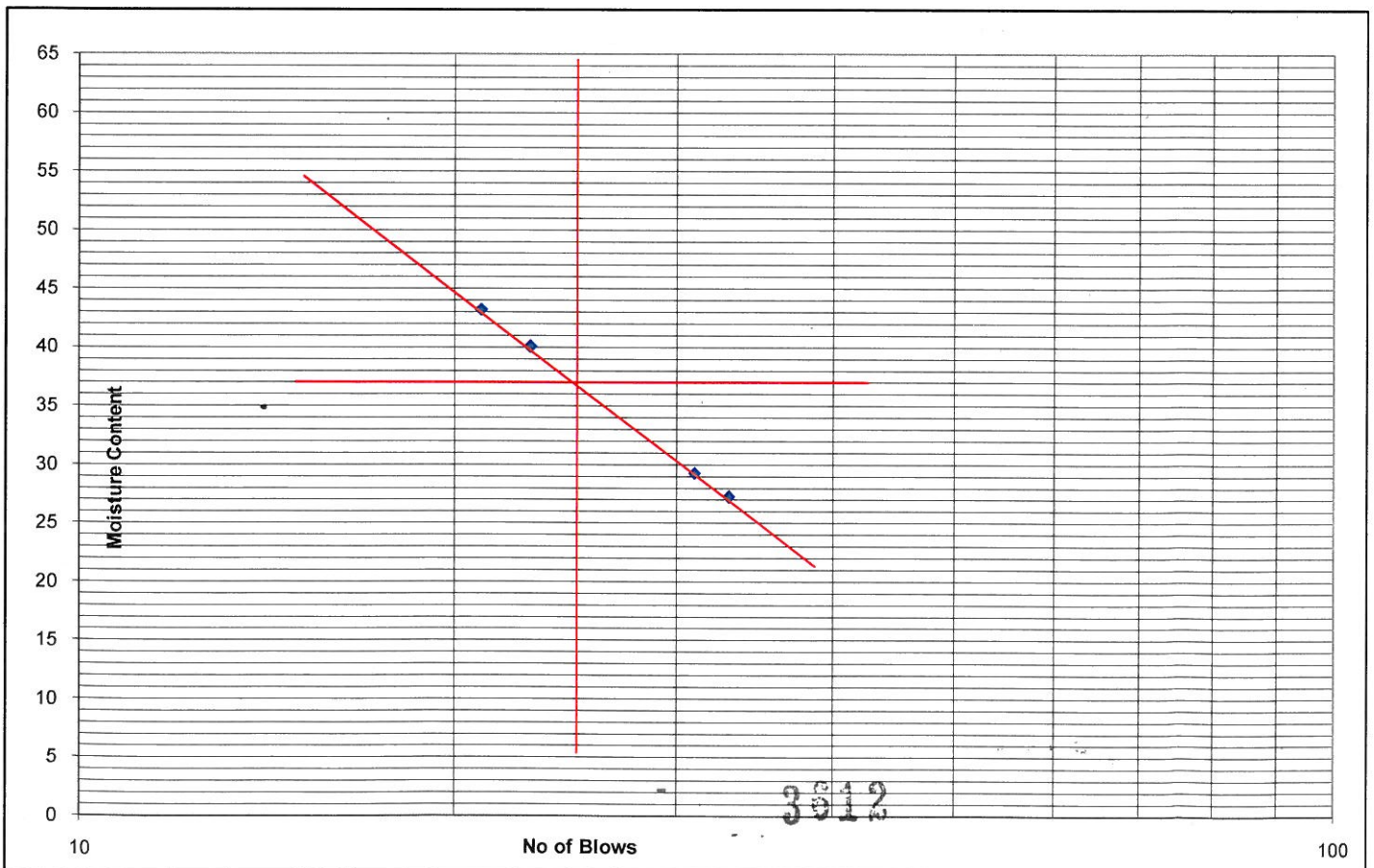
IS : 2720 (Part -5)

Client	: DFCC	Date Of Testing	: 25.09.12
Project Name	: G.I For 3 Nos. Important Bridges	Sampled by	: T.K.Das
Type of Sample	: SPT	Tested by	: D.Mohanty
Location	: BH-2(Markanda River-Ambala)		
Depth	: 40.5m		

Number of Blows	33	31	23	21	Plastic Limit	
	E25	E26	E27	E28	E29	E30
Container No.	E25	E26	E27	E28	E29	E30
Container Weight (gm) (W1)	33.6	34.2	36.7	32.65	31.26	30.12
Container + Wt. of wet soil (gm) (W2)	91.15	105.16	104.89	113.64	98.93	91.96
Wt of Container + Wt. of oven dry soil (gm) (W3)	78.82	89.07	85.38	89.20	88.32	82.35
Wt. Of water (gm) (W2-W1)-(W3-W1)	12.32	16.08	19.51	24.44	10.61	9.61
Wt. of oven dry soil (gm) (W3-W1)	45.22	54.87	48.68	56.55	57.06	52.23
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	27.25	29.31	40.07	43.21	18.59	18.40

Result Summary

Liquid Limit (WL)	37	%
Plastic Limit (Wp)	18	%
Plasticity Index (Ip)	19	%





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DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

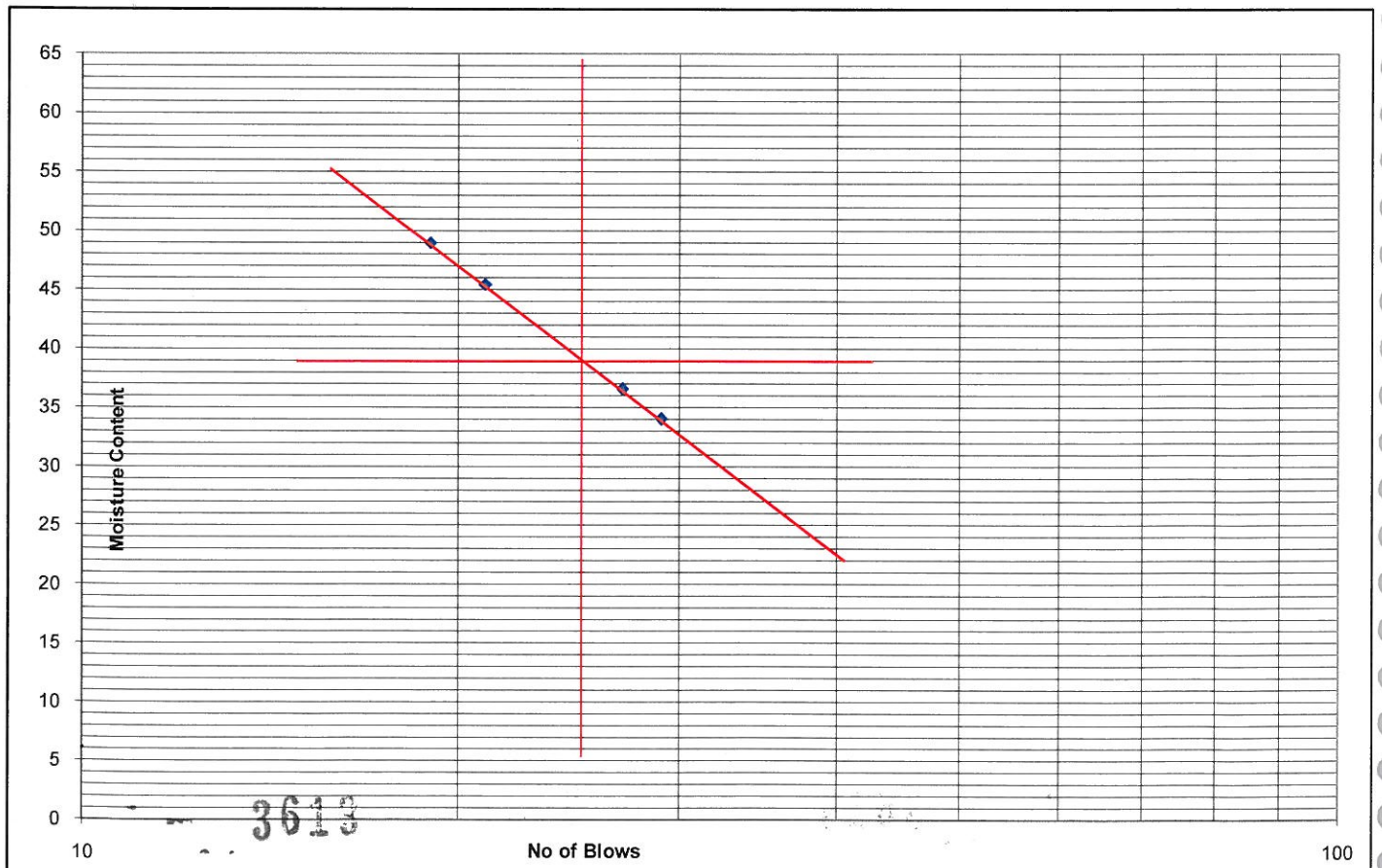
IS : 2720 (Part -5)

Client	: DFCC	Date Of Testing	: 25.09.12
Project Name	: G.I For 3 Nos. Important Bridges	Sampled by	: T.K.Das
Type of Sample	: SPT	Tested by	: D.Mohanty
Location	: BH-2(Markanda River-Ambala)		
Depth	: 42.0m		

Number of Blows	29	27	21	19	Plastic Limit	
Container No.	E7	E8	E9	E10	E11	E12
Container Weight (gm) (W1)	30.44	36.34	37.83	32.28	30.76	32.24
Container + Wt. of wet soil (gm) (W2)	95.39	108.45	107.03	117.64	99.59	92.15
Wt of Container + Wt. of oven dry soil (gm) (W3)	78.91	89.14	85.42	89.59	88.20	82.63
Wt. Of water (gm) (W2-W1)-(W3-W1)	16.49	19.31	21.61	28.06	11.39	9.52
Wt. of oven dry soil (gm) (W3-W1)	48.47	52.80	47.59	57.31	57.44	50.39
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	34.02	36.58	45.42	48.96	19.83	18.89

Result Summary

Liquid Limit (WL)	39	%
Plastic Limit (Wp)	19	%
Plasticity Index (Ip)	20	%



3613



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DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

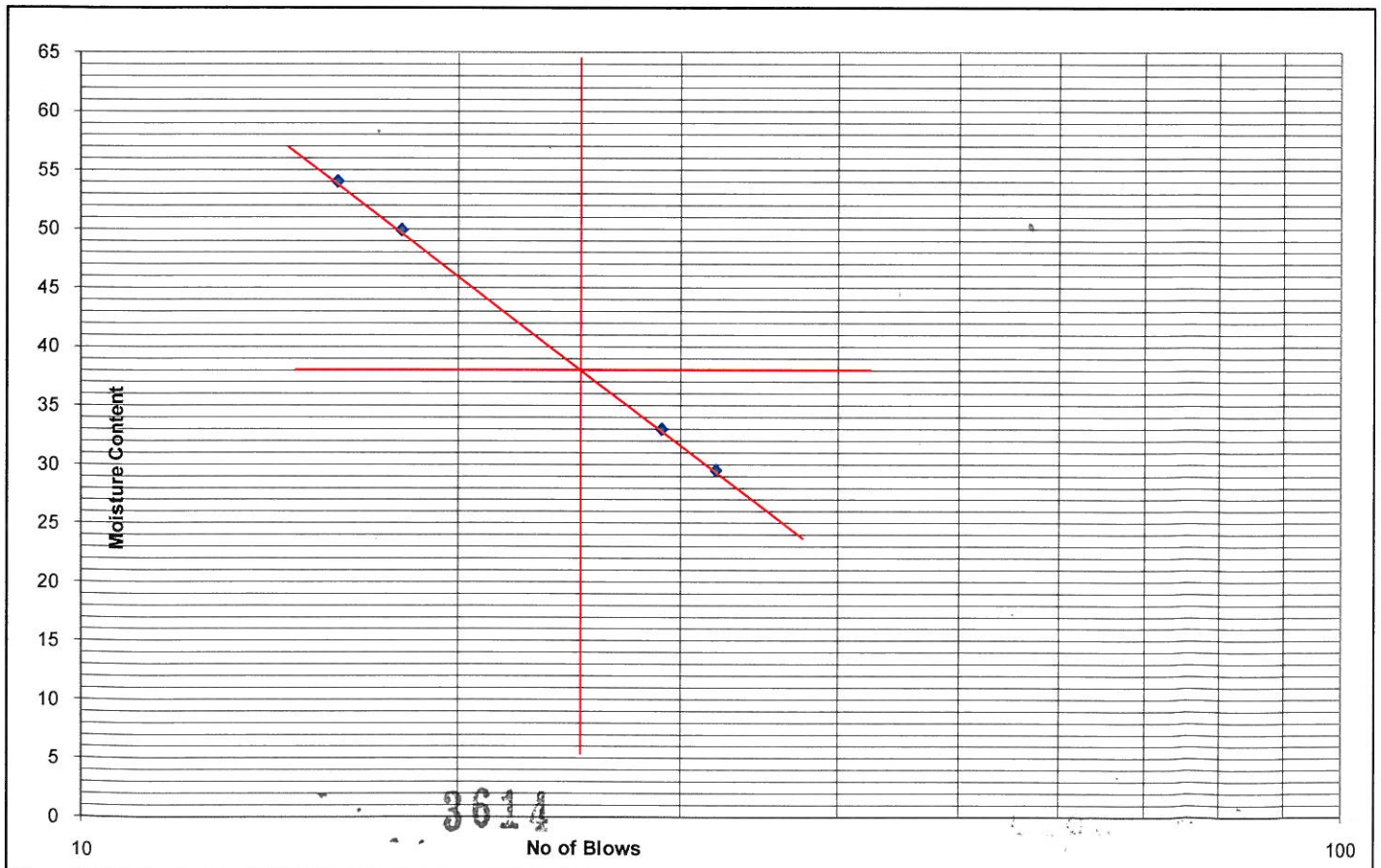
IS : 2720 (Part -5)

Client	: DFCC	Date Of Testing	: 25.09.12
Project Name	: G.I For 3 Nos. Important Bridges	Sampled by	: T.K.Das
Type of Sample	: SPT	Tested by	: D.Mohanty
Location	: BH-2(Markanda River-Ambala)		
Depth	: 48.0m		

Number of Blows	32	29	18	16	Plastic Limit	
	E31	E32	E33	E34	E35	E36
Container No.	E31	E32	E33	E34	E35	E36
Container Weight (gm) (W1)	30.8	35.09	32.47	31.56	36.29	30.99
Container + Wt. of wet soil (gm) (W2)	93.20	107.07	111.93	121.21	98.87	92.60
Wt of Container + Wt. of oven dry soil (gm) (W3)	78.99	89.22	85.48	89.76	88.38	82.84
Wt. Of water (gm) (W2-W1)-(W3-W1)	14.21	17.84	26.45	31.44	10.49	9.76
Wt. of oven dry soil (gm) (W3-W1)	48.19	54.13	53.01	58.20	52.09	51.85
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	29.48	32.96	49.89	54.02	20.13	18.82

Result Summary

Liquid Limit (WL)	38	%
Plastic Limit (Wp)	19	%
Plasticity Index (Ip)	19	%





DETERMINATION OF LIQUID LIMIT AND PLASTIC LIMIT

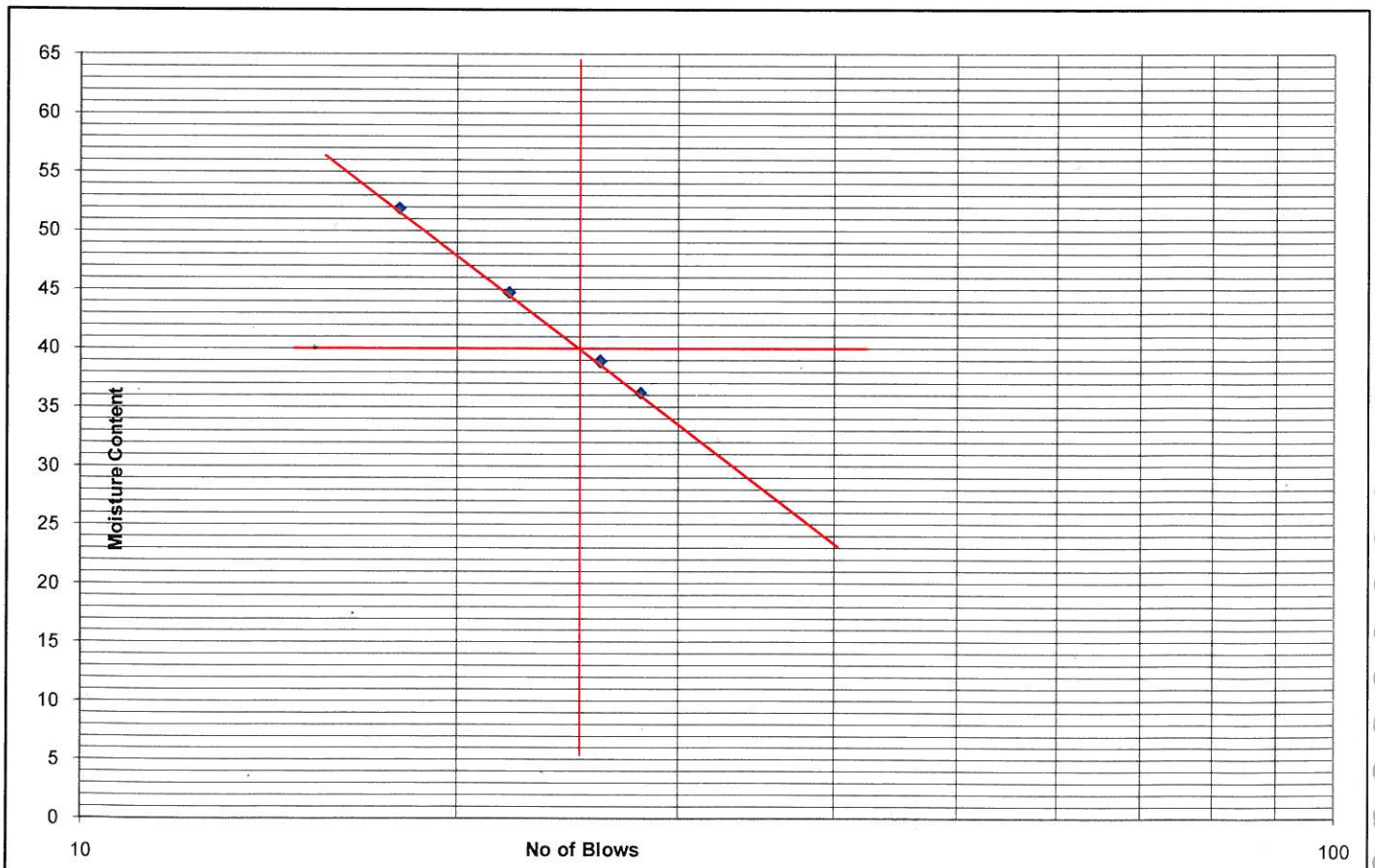
IS : 2720 (Part -5)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : SPT
 Location : BH-2(Markanda River-Ambala)
 Depth : 50.0m
 Date Of Testing : 25.09.12
 Sampled by : T.K.Das
 Tested by : D.Mohanty

Number of Blows	28	26	22	18	Plastic Limit	
Container No.	E19	E20	E21	E22	E23	E24
Container Weight (gm) (W1)	31.69	35.24	37.88	34.61	35.8	32.51
Container + Wt. of wet soil (gm) (W2)	96.32	110.42	106.69	118.51	98.83	92.77
Wt of Container + Wt. of oven dry soil (gm) (W3)	79.14	89.36	85.42	89.85	88.35	82.87
Wt. Of water (gm) (W2-W1)-(W3-W1)	17.19	21.06	21.27	28.66	10.48	9.89
Wt. of oven dry soil (gm) (W3-W1)	47.45	54.12	47.54	55.24	52.55	50.36
Moisture Content (%)= [(W2-W1)-(W3-W1)]/(W3-W1) X 100	36.22	38.91	44.73	51.88	19.94	19.64

Result Summary

Liquid Limit (WL)	40	%
Plastic Limit (Wp)	20	%
Plasticity Index (Ip)	20	%



3615



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DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client	: DFCC	Date Of Testing	: 24.09.12
Project Name	: G.I For 3 Nos. Important Bridges	Tested by	: D.Mohanty
Type of Sample	: UDS	Sampled by	: T.K.Das
Location	: BH-2(Markanda River-Ambala)	Weight of Sample	: 10gm
Depth	: 10.5m		

SAMPLE NO.	VOLUME IN Kerosin Oil V _k	VOLUME IN WATER V _d	SWELL (V _d -V _k)	SWELL INDEX = $(V_d - V_k) / (V_k) * 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.0	2.00	20	15	50%
2	10	11.5	1.50	15		
3	10	11.0	1.00	10		

Remarks:

Lab Manager

Checked By:

3616



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N 3/91, IRC Village, Bhubaneswar

DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Date Of Testing : 24.09.12
Type of Sample : UDS
Tested by : D.Mohanty
Location : BH-2(Markanda River-Ambala)
Sampled by : T.K.Das
Depth : 13.5m
Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN Kerosin Oil V _k	VOLUME IN WATER V _d	SWELL (V _d -V _k)	SWELL INDEX = $\frac{(V_d - V_k)}{V_k} \times 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.5	2.50	25	18	50%
2	10	12.0	2.00	20		
3	10	11.0	1.00	10		

Remarks:

Lab Manager

Checked By:

3617



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DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : UDS
Location : BH-2(Markanda River-Ambala)
Depth : 16.5m
Date Of Testing : 24.09.12
Tested by : D.Mohanty
Sampled by : T.K.Das
Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN KEROSENE OIL V_k	VOLUME IN WATER V_d	SWELL ($V_d - V_k$)	SWELL INDEX = $\frac{(V_d - V_k)}{V_k} \times 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.0	2.00	20	17	50%
2	10	11.5	1.50	15		
3	10	11.5	1.50	15		

Remarks:

Lab Manager

Checked By:

3618



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DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Date Of Testing : 24.09.12

Type of Sample : UDS

Tested by : D.Mohanty

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 19.5m

Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN KEROSENE OIL V_k	VOLUME IN WATER V_d	SWELL ($V_d - V_k$)	SWELL INDEX = $\frac{(V_d - V_k)}{V_k} * 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.0	2.00	20	16	50%
2	10	11.5	1.50	15		
3	10	11.3	1.30	13		

Remarks:

Lab Manager

Checked By:

3619



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DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : UDS
Location : BH-2(Markanda River-Ambala)
Depth : 22.5m
Date Of Testing : 24.09.12
Tested by : D.Mohanty
Sampled by : T.K.Das
Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN KEROSENE OIL V _k	VOLUME IN WATER V _d	SWELL (V _d -V _k)	SWELL INDEX = (V _d -V _k)/ (V _k)*100 (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.5	2.50	25	19	50%
2	10	12.0	2.00	20		
3	10	11.2	1.20	12		

Remarks:

Lab Manager

Checked By:

3620

3102



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DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : UDS
Location : BH-2(Markanda River-Ambala)
Depth : 25.5m
Date Of Testing : 24.09.12
Tested by : D.Mohanty
Sampled by : T.K.Das
Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN KEROSENE OIL V_k	VOLUME IN WATER V_d	SWELL ($V_d - V_k$)	SWELL INDEX = $\frac{(V_d - V_k)}{V_k} * 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.5	2.50	25	18	50%
2	10	12.0	2.00	20		
3	10	11.0	1.00	10		

Remarks:

Lab Manager

Checked By:

3621



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DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Date Of Testing : 24.09.12

Type of Sample : UDS

Tested by : D.Mohanty

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 28.5m

Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN Kerosin Oil V_k	VOLUME IN WATER V_d	SWELL ($V_d - V_k$)	SWELL INDEX = $\frac{(V_d - V_k)}{V_k} \times 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.5	2.50	25	17	50%
2	10	11.5	1.50	15		
3	10	11.0	1.00	10		

Remarks:

Lab Manager

Checked By:

3622

1301



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N 3/91, IRC Village, Bhubaneswar

DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : UDS
Location : BH-2(Markanda River-Ambala)
Depth : 31.5m
Date Of Testing : 24.09.12
Tested by : D.Mohanty
Sampled by : T.K.Das
Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN KEROSENE OIL V_k	VOLUME IN WATER V_d	SWELL ($V_d - V_k$)	SWELL INDEX = $\frac{(V_d - V_k)}{V_k} \times 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.0	2.00	20	15	50%
2	10	11.5	1.50	15		
3	10	11.0	1.00	10		

Remarks:

Lab Manager

Checked By:

3623



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Date Of Testing : 24.09.12
Type of Sample : SPT
Tested by : D.Mohanty
Location : BH-2(Markanda River-Ambala)
Sampled by : T.K.Das
Depth : 37.5m
Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN Kerosin Oil V _k	VOLUME IN WATER V _d	SWELL (V _d -V _k)	SWELL INDEX = $\frac{(V_d - V_k)}{V_k} \times 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.0	2.00	20	17	50%
2	10	11.5	1.50	15		
3	10	11.5	1.50	15		

Remarks:

Lab Manager

Checked By:

3624



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N 3/91, IRC Village, Bhubaneswar

DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT
Location : BH-2(Markanda River-Ambala)
Depth : 42.0m
Date Of Testing : 24.09.12
Tested by : D.Mohanty
Sampled by : T.K.Das
Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN Kerosin Oil V_k	VOLUME IN WATER V_d	SWELL ($V_d - V_k$)	SWELL INDEX = $\frac{(V_d - V_k)}{V_k} * 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.0	2.00	20	16	50%
2	10	11.5	1.50	15		
3	10	11.3	1.30	13		

Remarks:

Lab Manager

Checked By:

3625



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N 3/91, IRC Village, Bhubaneswar

DIFFERENTIAL FREE SWELL INDEX OF SOIL (D.F.S.)

AS PER IS: 2720 (PART - 40)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT
Location : BH-2(Markanda River-Ambala)
Depth : 50.0m
Date Of Testing : 24.09.12
Tested by : D.Mohanty
Sampled by : T.K.Das
Weight of Sample : 10gm

SAMPLE NO.	VOLUME IN Kerosin Oil V_k	VOLUME IN WATER V_d	SWELL ($V_d - V_k$)	SWELL INDEX = $\frac{(V_d - V_k)}{V_k} * 100$ (%)	AVERAGE SWELL %	SPECIFIC LIMIT
1	10	12.5	2.50	25	18	50%
2	10	11.5	1.50	15		
3	10	11.3	1.30	13		

Remarks:

Lab Manager

Checked By:

3626

20094



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 6.0m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	37.83	
3	Weight of bottle with soil and water W3 in gm	136.34	
4	Weight of bottle full of water W4 in gm	132.49	
5	Weight of dry soil (W2-W1)in gm	6.32	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	2.47	
7	Specific Gravity G = (5) / (6)	2.56	

Lab Manager

Checked By

3027



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : UDS

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 10.5m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	35.48	
3	Weight of bottle with soil and water W3 in gm	137.58	
4	Weight of bottle full of water W4 in gm	135.10	
5	Weight of dry soil (W2-W1)in gm	3.96	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	1.48	
7	Specific Gravity G = (5) / (6)	2.68	

Lab Manager

Checked By

3623



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DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 15.0m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	33.89	
3	Weight of bottle with soil and water W3 in gm	136.73	
4	Weight of bottle full of water W4 in gm	135.24	
5	Weight of dry soil (W2-W1)in gm	2.37	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	0.88	
7	Specific Gravity G = (5) / (6)	2.68	

Lab Manager

Checked By

3629



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 18.0m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	36.34	
3	Weight of bottle with soil and water W3 in gm	137.71	
4	Weight of bottle full of water W4 in gm	134.68	
5	Weight of dry soil (W2-W1)in gm	4.82	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	1.79	
7	Specific Gravity G = (5) / (6)	2.69	

Lab Manager

Checked By

3630



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : UDS

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 19.5m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	37.58	
3	Weight of bottle with soil and water W3 in gm	136.23	
4	Weight of bottle full of water W4 in gm	132.43	
5	Weight of dry soil (W2-W1)in gm	6.06	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	2.26	
7	Specific Gravity G = (5) / (6)	2.68	

Lab Manager

Checked By

3631



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 21.0m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	36.45	
3	Weight of bottle with soil and water W3 in gm	135.99	
4	Weight of bottle full of water W4 in gm	132.90	
5	Weight of dry soil (W2-W1)in gm	4.93	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	1.84	
7	Specific Gravity G = (5) / (6)	2.68	

Lab Manager

Checked By

3632



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Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : UDS

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 22.5m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	35.68	
3	Weight of bottle with soil and water W3 in gm	136.46	
4	Weight of bottle full of water W4 in gm	133.84	
5	Weight of dry soil (W2-W1)in gm	4.16	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	1.54	
7	Specific Gravity G = (5) / (6)	2.70	

Lab Manager

Checked By

3633



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 24.0m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	36.78	
3	Weight of bottle with soil and water W3 in gm	137.89	
4	Weight of bottle full of water W4 in gm	134.59	
5	Weight of dry soil (W2-W1)in gm	5.26	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	1.96	
7	Specific Gravity G = (5) / (6)	2.69	

Lab Manager

Checked By

3634



ARKITECHNO
CONSULTANTS INDIA PVT. LTD.

Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : UDS

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 28.5m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	37.13	
3	Weight of bottle with soil and water W3 in gm	135.89	
4	Weight of bottle full of water W4 in gm	132.37	
5	Weight of dry soil (W2-W1)in gm	5.61	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	2.09	
7	Specific Gravity G = (5) / (6)	2.68	

Lab Manager

Checked By

3635



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 30.0m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	36.73	
3	Weight of bottle with soil and water W3 in gm	137.72	
4	Weight of bottle full of water W4 in gm	134.46	
5	Weight of dry soil (W2-W1)in gm	5.21	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	1.94	
7	Specific Gravity G = (5) / (6)	2.68	

Lab Manager

Checked By

3635

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : UDS

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 31.5m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	36.25	
3	Weight of bottle with soil and water W3 in gm	134.58	
4	Weight of bottle full of water W4 in gm	131.61	
5	Weight of dry soil (W2-W1)in gm	4.73	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	1.76	
7	Specific Gravity G = (5) / (6)	2.69	

Lab Manager

Checked By

3637



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 37.5m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	37.56	
3	Weight of bottle with soil and water W3 in gm	137.54	
4	Weight of bottle full of water W4 in gm	133.75	
5	Weight of dry soil (W2-W1)in gm	6.04	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	2.25	
7	Specific Gravity G = (5) / (6)	2.68	

Lab Manager

Checked By

3638



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 42.0m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	35.65	
3	Weight of bottle with soil and water W3 in gm	136.48	
4	Weight of bottle full of water W4 in gm	133.89	
5	Weight of dry soil (W2-W1)in gm	4.13	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	1.54	
7	Specific Gravity G = (5) / (6)	2.69	

Lab Manager

Checked By

3633



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 48.0m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	36.58	
3	Weight of bottle with soil and water W3 in gm	136.92	
4	Weight of bottle full of water W4 in gm	133.73	
5	Weight of dry soil (W2-W1)in gm	5.06	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	1.87	
7	Specific Gravity G = (5) / (6)	2.70	

Lab Manager

Checked By

3640

3640



Arki Techno Consultants (India) Pvt.Ltd

N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF SPECIFIC GRAVITY BY DENSITY BOTTLE METHOD AS PER IS : 2386 (Part -2)

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Type of Sample : SPT

Date Of Testing : 24.09.12

Location : BH-2(Markanda River-Ambala)

Sampled by : T.K.Das

Depth : 50.0m

Tested by : D.Mohanty

Sl. No.	Observations	1	Remarks
1	Weight of density bottle W1 in gm	31.52	
2	Weight of bottle with dry soil in W2 gm	37.95	
3	Weight of bottle with soil and water W3 in gm	137.34	
4	Weight of bottle full of water W4 in gm	133.31	
5	Weight of dry soil (W2-W1)in gm	6.43	
6	Weight of equal volume of water(W2 - W1) - (W3 - W4) in gm	2.40	
7	Specific Gravity G = (5) / (6)	2.68	

Lab Manager

Checked By

3641



ARKI TECHNO CONSULTANTS (I) PVT. LTD.
N 3/91, IRC Village, Bhubaneswar

DETERMINATION OF BULK DENSITY & MOISTURE CONTENT OF SOIL SAMPLE

Client : DFCC

Project Name : G.I For 3 Nos. Important Bridges

Location : BH-2(Markanda River-Ambala)

Sl No.	BH No.	Depth in m	Type of Sample	Date of Testing	Weight of Container in gm	Diameter of Sample in cm	Length of Sample in cm	Volume of Sample in cc	Weight of Container + Wet Soil in gm	Weight of Container + Dry soil in gm	Weight of Dry soil in gm	Weight of water in gm	Moisture Content in %	Bulk Density in gm/cc	Dry Density in gm/cc
1	BH-2(Markanda River-Ambala)	6.0	SPT	24.09.12	60.45	3.8	7	79.39	208.91	193.49	133.04	15.42	11.59	1.87	1.68
2		10.5	UDS	24.09.12	61.52	3.8	7	79.39	219.51	189.22	127.70	30.29	23.72	1.99	1.61
3		15.0	SPT	24.09.12	62.33	3.8	7	79.39	221.11	192.68	130.35	28.43	21.81	2.00	1.64
4		18.0	SPT	24.09.12	61.41	3.8	7	79.39	219.40	188.31	126.90	31.09	24.50	1.99	1.60
5		19.5	UDS	24.09.12	61.28	3.8	7	79.39	220.85	192.43	131.15	28.42	21.67	2.01	1.65
6		21.0	SPT	24.09.12	63.11	3.8	7	79.39	224.27	194.54	131.43	29.73	22.62	2.03	1.66
7		22.5	UDS	24.09.12	65.34	3.8	7	79.39	224.12	194.25	128.91	29.87	23.17	2.00	1.62
8		24.0	SPT	24.09.12	60.55	3.8	7	79.39	223.30	195.09	134.54	28.21	20.97	2.05	1.69
9		25.5	UDS	24.09.12	63.18	3.8	7	79.39	225.13	197.60	134.43	27.53	20.48	2.04	1.69
10		28.5	UDS	24.09.12	63.44	3.8	7	79.39	230.95	200.41	136.97	30.54	22.30	2.11	1.73
11		30.0	SPT	24.09.12	63.70	3.8	7	79.39	234.39	200.57	136.87	33.82	24.71	2.15	1.72
12		31.5	UDS	24.09.12	63.96	3.8	7	79.39	232.27	203.24	139.28	29.03	20.84	2.12	1.75
13		37.5	SPT	24.09.12	64.2	3.8	7	79.39	237.30	206.45	142.22	30.85	21.69	2.18	1.79
14		48.0	SPT	24.09.12	64.49	3.8	7	79.39	239.15	206.15	141.66	32.99	23.29	2.20	1.78
15		50.0	SPT	24.09.12	64.75	3.8	7	79.39	241.79	208.22	143.47	33.57	23.40	2.23	1.81



Arki Techno Consultants (India) Pvt. Ltd
N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 1.5m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 79.17

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	35.91	35.91	35.91	64.09
0.425	31.57	31.57	67.48	32.52
0.075	11.69	11.69	79.17	20.83
Total	100.00			

Gravel Content (%)= 0.00
Sand Content (%) = 79.17 Silt and clay % 20.83

Remarks :-

3643

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd
N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 3.0m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 81.24

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	35.26	35.26	35.26	64.74
0.425	33.26	33.26	68.52	31.48
0.075	12.72	12.72	81.24	18.76
Total	100.00			

Gravel Content (%)= 0.00
Sand Content (%) = 81.24 Silt and clay % 18.76

Remarks :-

3644

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd
N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 4.5m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 80.28

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	36.72	36.72	36.72	63.28
0.425	32.06	32.06	68.78	31.22
0.075	11.51	11.51	80.29	19.71
Total	100.00			

Gravel Content (%)= 0.00
Sand Content (%) = 80.29 Silt and clay % 19.71

Remarks :-

3645

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd
N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 6.0m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 77.92

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	34.81	34.81	34.81	65.19
0.425	32.48	32.48	67.29	32.71
0.075	10.63	10.63	77.92	22.08
Total	100.00			

Gravel Content (%)= 0.00
Sand Content (%) = 77.92 Silt and clay % 22.08

Remarks :-

3646

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd

N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : UDS Date of Testing : 28.09.12
 Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
 Depth : 7.5m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
 Weight of oven dried sample after washing (gm) :- 1.84

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.89	0.89	0.89	99.11
0.425	0.76	0.76	1.65	98.35
0.075	0.19	0.19	1.84	98.16
Total	100.00			

Gravel Content (%)= 0.00
 Sand Content (%) = 1.84 Silt and clay % 98.16

Remarks :-

3647

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd

N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 9.0m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 1.55

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.79	0.79	0.79	99.21
0.425	0.63	0.63	1.42	98.58
0.075	0.14	0.14	1.56	98.44
Total	100.00			

Gravel Content (%)= 0.00

Sand Content (%) = 1.56 Silt and clay % 98.44

Remarks :-

3648

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd

N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : UDS Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 10.5m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 1.09

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.59	0.59	0.59	99.41
0.425	0.39	0.39	0.98	99.02
0.075	0.11	0.11	1.09	98.91
Total	100.00			

Gravel Content (%)= 0.00

Sand Content (%) = 1.09 Silt and clay % 98.91

Remarks :-

3649

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd
N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : UDS Date of Testing : 28.09.12
 Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
 Depth : 13.5m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
 Weight of oven dried sample after washing (gm) :- 1.65

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt. Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.91	0.91	0.91	99.09
0.425	0.54	0.54	1.45	98.55
0.075	0.20	0.20	1.65	98.35
Total	100.00			

Gravel Content (%)= 0.00
 Sand Content (%) = 1.65 Silt and clay % 98.35

Remarks :-

3650

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd
N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 15.0m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 0.96

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.54	0.54	0.54	99.46
0.425	0.35	0.35	0.89	99.11
0.075	0.08	0.08	0.97	99.03
Total	100.00			

Gravel Content (%)= 0.00
Sand Content (%) = 0.97 Silt and clay % 99.03

Remarks :-

3651

Lab Manager

Checked By

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : UDS Date of Testing : 28.09.12
 Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
 Depth : 16.5m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
 Weight of oven dried sample after washing (gm) :- 1.32

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.77	0.77	0.77	99.23
0.425	0.40	0.40	1.17	98.83
0.075	0.15	0.15	1.32	98.68
Total	100.00			

Gravel Content (%)= 0.00
 Sand Content (%) = 1.32 Silt and clay % 98.68

Remarks :-

3652

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd
N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : UDS Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 19.5m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 1.43

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.79	0.79	0.79	99.21
0.425	0.50	0.50	1.29	98.71
0.075	0.14	0.14	1.43	98.57
Total	100.00			

Gravel Content (%)= 0.00

Sand Content (%) = 1.43 Silt and clay % 98.57

Remarks :-

3653

Lab Manager

Checked By

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : UDS Date of Testing : 28.09.12
 Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
 Depth : 22.5m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
 Weight of oven dried sample after washing (gm) :- 1.51

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.81	0.81	0.81	99.19
0.425	0.57	0.57	1.38	98.62
0.075	0.13	0.13	1.51	98.49
Total	100.00			

Gravel Content (%)= 0.00
 Sand Content (%) = 1.51 Silt and clay % 98.49

Remarks :-

3654

Lab Manager

Checked By



Arki Techno Consultants (India) Pvt. Ltd
N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 24.0m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 1.37

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.68	0.68	0.68	99.32
0.425	0.56	0.56	1.24	98.76
0.075	0.13	0.13	1.37	98.63
Total	100.00			

Gravel Content (%)= 0.00
Sand Content (%) = 1.37 Silt and clay % 98.63

Remarks :-

3653

Lab Manager

Checked By



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N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
 Project Name : G.I For 3 Nos. Important Bridges
 Type of Sample : SPT Date of Testing : 28.09.12
 Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
 Depth : 27.0m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
 Weight of oven dried sample after washing (gm) :- 1.18

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
.75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.60	0.60	0.60	99.40
0.425	0.49	0.49	1.09	98.91
0.075	0.10	0.10	1.19	98.81
Total	100.00			

Gravel Content (%)= 0.00
 Sand Content (%) = 1.19 Silt and clay % 98.81

Remarks :-

3656

Lab Manager

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Arki Techno Consultants (India) Pvt. Ltd
N 3/91, IRC Village, Bhubaneswar

GRAIN SIZE ANALYSIS OF SOIL AS PER IS 2720 (P- 4)

Client : DFCC
Project Name : G.I For 3 Nos. Important Bridges
Type of Sample : SPT Date of Testing : 28.09.12
Location : BH-3(Markanda River-Ambala) Sampled by : T. K. Das
Depth : 30.0m Tested by : D.Mohanty

Weight of oven dried sample before washing (gm) :- 100.00
Weight of oven dried sample after washing (gm) :- 1.52

Sieve Size mm	Individual Weight Retained in gm.	Individual Wt. Retained In %	Cummulative Wt Retained In %	Cummulative Wt Passing In %
75	0	0.00	0.00	100.00
50	0	0.00	0.00	100.00
37.5	0	0.00	0.00	100.00
19	0	0.00	0.00	100.00
4.75	0.00	0.00	0.00	100.00
2.00	0.75	0.75	0.75	99.25
0.425	0.59	0.59	1.34	98.66
0.075	0.19	0.19	1.53	98.47
Total	100.00			

Gravel Content (%)= 0.00
Sand Content (%) = 1.53 Silt and clay % 98.47

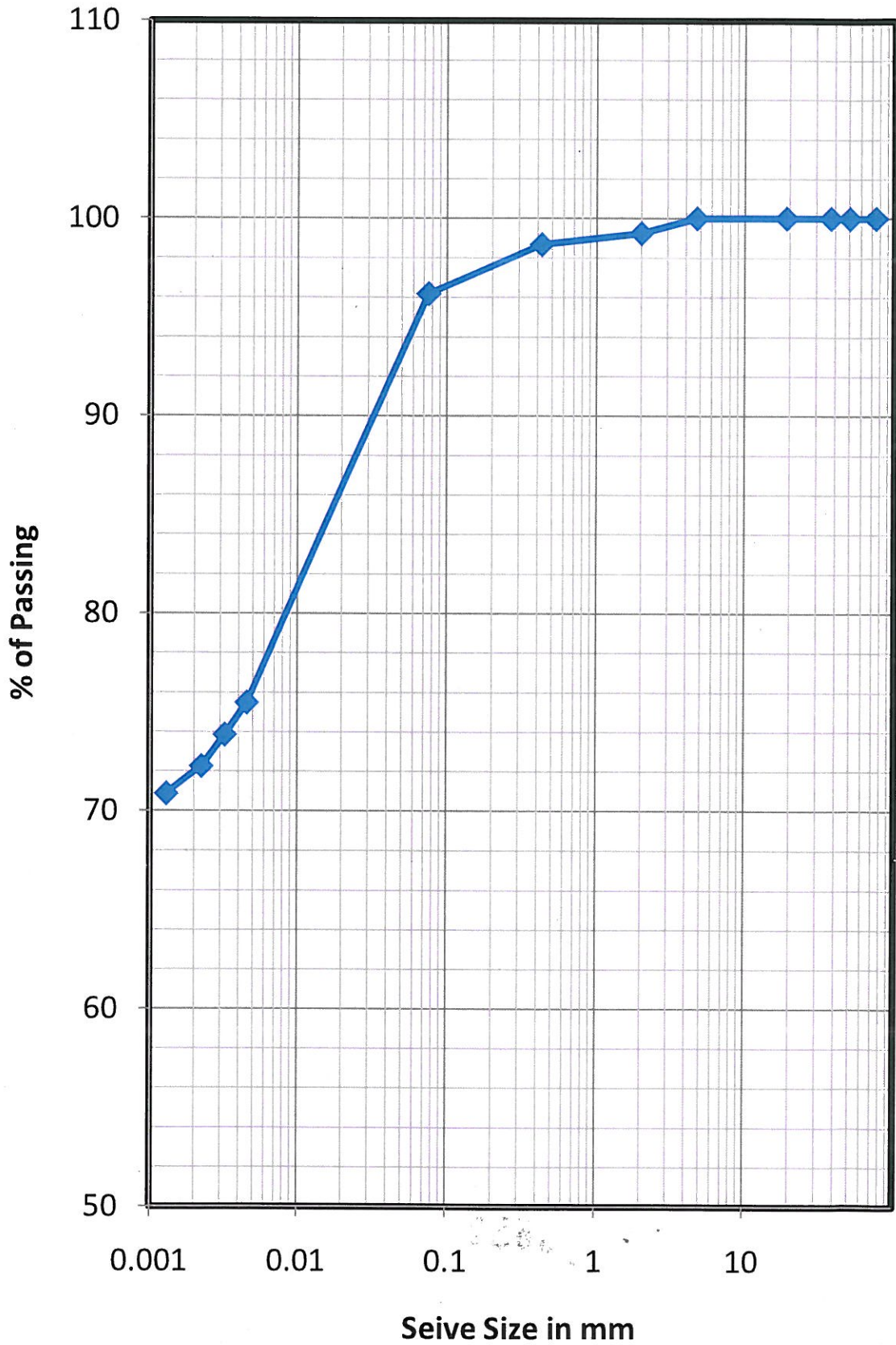
Remarks :-

3657

Lab Manager

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Grain Size Distribution Curve BH-3,D-30.0m



3653