

APPENDIX 1: Statistical parameters of grain size (percentiles) of Cretaceous sandstones, Zeerabad-Jobat area.

LOCATION/ SAMPLE NO.	$\Phi_5$	$\Phi_{16}$	$\Phi_{25}$	$\Phi_{50}$	$\Phi_{75}$	$\Phi_{84}$	$\Phi_{95}$
DHANORA 106	-0.05	0.25	0.45	1.15	1.40	1.75	2.65
108	-0.05	0.25	0.40	0.90	1.35	1.50	1.95
BARIA							
78	0.9	1.98	2.3	3.4	3.98	4.3	4.9
79	0.2	0.6	0.75	1.0	1.45	1.7	2.95
80	0.25	0.6	0.78	1.1	1.4	1.55	2.25
81	2.25	2.83	3.18	3.85	4.55	4.85	5.3
85	2.28	2.65	2.8	3.4	4.05	4.4	5.0
86	2.4	2.85	3.15	4.05	4.5555	4.75	5.4
94	1.1	1.45	1.63	1.95	2.4	2.65	3.5
SITAPURI							
48	0.2	0.7	0.9	1.48	2.08	2.4	3.0
49	1.13	1.50	1.68	1.95	2.48	2.75	3.15
50	0.25	0.7	0.95	1.35	1.85	2.1	2.6
51	0.53	0.85	1.1	1.45	1.98	2.25	2.5
52	0.0	0.5	0.75	1.28	1.65	1.95	2.6
MOHANPUR							
221	0.25	1.1	1.3	1.95	2.35	2.5	2.9
223	0.1	0.35	0.55	0.95	1.35	1.7	2.25
224	1.25	1.6	1.75	2.1	2.4	2.5	3.0
225	1.25	1.6	1.7	2.05	2.5	2.7	3.0
227	1.4	1.65	1.8	2.1	2.45	2.65	2.95
228	1.2	1.45	1.6	1.9	2.4	2.65	2.9
229	1.5	1.7	1.8	2.2	2.55	2.75	3.15
230	0.1	0.75	1.1	1.6	2.25	2.5	2.95
ANJANTAL							
239	2.25	2.8	2.95	3.3	3.7	3.85	4.4
240	2.5	2.75	2.85	3.25	3.7	3.85	4.5
241	2.7	3.15	3.3	3.6	3.9	4.2	4.7
242	2.65	3.0	3.15	3.4	3.8	4.0	4.55
243	2.55	2.7	2.75	3.0	3.4	3.65	4.15
244	2.0	2.25	2.4	2.7	2.9	3.15	3.65
245	2.05	2.3	2.45	2.8	3.35	3.6	3.95
246	1.65	2.0	2.1	2.55	2.9	3.25	3.8
250	2.4	2.7	2.85	3.25	3.65	3.8	4.0
252	2.4	2.65	2.8	3.05	3.55	3.7	3.9
253	1.45	1.9	2.15	2.6	2.9	3.05	3.55
BAGH CAVES							
60	1.05	1.7	2.05	2.6	3.2	3.5	4.1
61	0.6	1.4	2.1	2.6	2.9	3.1	3.75
62	0.55	1.15	1.4	2.0	2.45	2.7	3.1
64	0.7	1.3	1.6	2.1	2.6	2.8	3.4
65	0.5	1.0	1.2	1.5	2.25	2.5	3.0
68	2.3	2.65	2.75	3.0	3.35	3.6	4.05
70	2.2	2.55	2.70	2.70	3.75	3.95	4.35
JHABA							
134	0.4	0.75	1.0	1.9	2.55	2.75	3.05
138	1.15	1.8	2.1	2.4	2.85	3.05	3.65
139	1.95	2.1	2.25	2.55	2.8	2.9	3.2
140	1.5	1.75	1.9	2.3	2.7	2.9	3.6
141	1.35	1.75	1.9	2.25	2.6	2.75	3.0
143	2.05	2.5	2.6	2.9	3.3	3.55	3.85
DHOLYA CHIKLEE							
161	1.2	1.55	1.7	1.95	2.3	2.4	2.8
164	2.3	2.7	2.9	3.35	3.75	3.9	4.45
167	0.25	0.7	0.95	1.5	2.25	2.45	3.0
169	-0.05	0.7	1.0	1.85	3.15	3.35	3.7
170	0.6	1.0	1.2	1.7	2.05	2.3	2.7
171	0.55	1.05	1.25	1.7	2.05	2.25	2.65
172	2.25	2.75	2.85	3.15	3.45	3.6	3.95
174	1.75	2.15	2.3	2.7	3.1	3.45	3.85
177	1.65	2.0	2.2	2.6	2.9	3.4	4.0
178	1.15	1.55	1.65	1.85	2.3	2.6	2.9
179	1.75	2.2	2.35	2.7	3.0	3.35	3.85

Appendix-II : Azimuths, set thicknesses and foreset inclination angles of cross bedding of Nimar Sandstone, Zeerabad-Jobat area.

LOCALITY	TYPE OF CROSS-BEDDING	AZIMUTHS (DEGREE)	DIP OF FORESETS (DEGREE)	SET THICKNESS (CM)
GHURSUL KARONDIA BARIA	Planar	205, 210, 220 (n = 3)	20, 24 (n = 2)	
	Planar	220, 225, 228, 235, 244, 248, 250, 335 (n = 8)		
	Planar	28, 50, 65, 220, 224, 225, 228, 235, 248, 248, 250, 273 (n = 14)	15, 20 (n = 2)	5, 6, 9, 20, 22 (n = 5)
SITAPURI MOHANPUR NANDGAON	Trough	50, 55, 65, 145, 170, 185, 215, 235, 273 (n = 9)		
	Planar	217, 225, 235, 235, 255 (n = 5)	19 (n = 1)	
	Planar	175, 175, 190, 205, 220 (n = 5)	7, 10 (n = 2)	14, 16, 18, 19, 23 (n = 5)
BAGH	Trough	119, 195, 220, 225, 255, 248 (n = 6)		
	Planar	190, 200, 200, 200, 215, 210, 210, 210, 210, 215, 219, 230, 235, 245, 265, 268, 275, 285, 285, 290, 300, 310, 310, 330 (n = 27)	19, 20, 22, 25, 25, 32 (n = 6)	12, 14, 52, 80 (n = 4)
	Trough	125, 150, 155, 155, 155, 170, 170, 170, 175, 175, 220, 250, 255, 340, 340, 360 (n = 18)		
JHABA	Planar	190, 216, 240, 250, 253, 265, 270, 275, 285 (n = 9)		2, 3, 4 (n = 3)
	Trough	145 (n = 1)		
RAMPURA	Planar	65, 68 (n = 2)	10, 12 (n = 2)	50, 50 (n = 2)
	Trough	270, 280, 300 (n = 3)		
DHOLYA-CHIKLEE	Planar	95, 95, 100, 105, 105, 110, 110, 117 (n = 8)		10 (n = 1)

Appendix-III : Azimuths, set thicknesses and foreset inclination angles of cross bedding of Karondia Limestone, Zeerabad-Jobat area.

LOCALITY	TYPE OF CROSS-BEDDING	AZIMUTHS (DEGREE)	DIP OF FORESETS (DEGREE)	SET THICKNESS (CM)
DHANORA	Planar	30, 65, 75, 85, 95, 110, 112, 125, 143, 170, 190, 195, 216, 217, 265, 280 (n = 18)	8, 8, 10, 10, 10, 12, 12, 14, 15, 15 (n = 9)	28, 30, 34, 35, 40, 40, 45 (n = 7)
	Trough	119, 225, 235, 310, 320 (n = 5)		
ZEERABAD	Planar	23, 45, 45, 45, 50, 50, 55, 55, 55, 58, 65, 65, 65, 70, 75, 75, 75, 80, 80, 80, 85, 87, 95, 95, 102, 105, 110, 110, 112, 115, 115, 125, 125, 125, 130, 130, 130, 155, 237, 240, 255, 260, 265, 270, 285, 285, 295, 300, 305, 305, 325 (n = 57)	8, 10, 10, 10, 10, 12, 14, 15, 15, 16, 16, 18, 18, 18, 19, 20, 20, 22, 22, 23, 25, 25, 25, 25, 25, 32 (n = 25)	10, 12, 14, 17, 20, 25, 28, 30, 30, 32, 35, 35, 40, 48, 50, 52, 58, 60 (n = 18)
	Trough	28, 45, 153, 158, 260, 285, 320 (n = 7)		
GHURSUL	Planar	75, 105, 115, 235, 270 (n = 5)	14 (n = 1)	
KARONDIA	Planar	95, 115, 115 (n = 3)	10, 12, 15 (n = 3)	
	Planar	35, 45, 55, 55, 75, 92, 95, 118 (n = 8)	10, 12 (n = 2)	35 (n = 1)
SITAPURI	Trough	75 (n = 1)		
	Planar	37, 50, 50, 55, 55, 58, 58, 60, 75, 75, 75, 80, 80, 80, 85, 85, 85, 85, 85, 85, 90, 90, 90, 90, 90, 95, 100, 102, 105, 105, 110, 110, 113, 115, 120, 220, 235, 240, 240, 250, 250, 255, 260, 265, 270, 275, 280 (n = 51)	4, 8, 8, 10, 10, 10, 11, 12, 12, 12, 12, 12, 12, 14, 14, 15, 16, 16, 16, 16, 17, 18, 18, 18, 20 (n = 25)	20, 20, 21, 23, 28, 29, 29, 34, 35, 50 (n = 13)
ANJANTAL	Trough	195, 195, 205, 235, 310 (n = 5)		
	Planar	80, 85, 85, 95, 103, 105, 110, 110, 112 (n = 9)	13, 15 (n = 2)	3, 4, 4, 5 (n = 4)