



BHARAT HEAVY ELECTRICALS LIMITED  
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-21-Dec-24

CORRIGENDUM- 15

PROJECTs	:	3X800 MW TALABIRA
PACKAGE	:	COOLING TOWER - Induced Draft Cooling Towers (IDCT)
Enquiry No.	:	77/23/6121/VIN Dated 18.09.24
SUBJECT	:	Bore – Holes report

Type of Corrigendum			
Technical Corrigendum -	<input checked="" type="checkbox"/>	Commercial Corrigendum -	<input type="checkbox"/>

In reference to the above-mentioned tender enquiry please note the following.

1. Please find Bore-Holes report.

All the other terms and conditions of the tender enquiry remain unchanged. All the bidders are requested to quote accordingly.

Yours faithfully,

For and on behalf of BHEL

Vinit Kumar Verma  
Sr. Manager/BOP

# K.C.T. Consultancy Services®

Project : BHEL  
 Bore Hole No. : 147  
 Location : Talabira  
 Depth of Termination : 25.0 m  
 Co-ordinates: E 1712, N 2709  
 Depth of Water Table : Encountered at 3.40m depth during investigation

Date of Start: 14-11-2024  
 Date of Completion: 16-11-2024  
 Diameter of Bore: 150mm and Nx size  
 Bit Used: Soil Surface Bit and NX Size  
 Reduced Level: 204.90 M

## BORE LOG DATA SHEET

Method of Boring	Depth m	Casing	Notation	Soil Description	Depth of Sample m	Drill Run		Type of Sample	SPT N Value/Penetration of S.S.S				Core Recovery (%)	RQD (%)	Remarks				
						From	To		N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N							
						m	m												
Rotary drilling method	0.00	Not Used			0.00	0.00	1.00	DS	-	-	-	-	-	-					
	0.50																		
	1.00																		
	1.50																		
	2.00																		
	2.50																		
	3.00																		
	3.50																		
	4.00																		
	4.50																		
	5.00																		
	5.50																		
	6.00																		
	6.50																		
	7.00																		
	7.50																		
	8.00																		
	8.50																		
	9.00																		
	9.50																		
	10.00																		
	10.50																		
	11.00																		
	11.50																		
	12.00																		
	12.50																		
	13.00																		
	13.50																		
	14.00																		
	14.50																		
15.00																			
15.50																			
16.00																			
16.50																			
17.00																			
17.50																			
18.00																			
18.50																			
19.00																			
19.50																			
20.00																			
20.50																			
21.00																			
21.50																			
22.00																			
22.50																			
23.00																			
23.50																			
24.00																			
24.50																			
25.00																			
<b>20.00 to 25.00m</b>																			



KICTNB

# K.C.T. Consultancy Services®

Project : BHEL

Bore Hole No. : 161

Location : Talabira

Depth of Termination : 25.0 m

Co-ordinates: E 1576, N 2448

Depth of Water Table : Encountered at 4.40m depth during investigation

Date of Start: 19-11-2024

Date of Completion: 22-11-2024

Diameter of Bore: 150mm and Nx size

Bit Used: Soil Surface Bit and NX Size

Reduced Level: 204.90 M

## BORE LOG DATA SHEET

Method of Boring	Depth m	Casing	Notation	Soil Description	Depth of Sample m	Drill Run		Type of Sample	SPT N Value/Penetration of S.S.S				Core Recovery (%)	RQD (%)	Remarks	
						From m	To m		N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N				
Rotary drilling method	0.00				0.00	0.00	1.00	DS	-	-	-	-	-	-		
	0.50															
	1.00				1.00	1.00	2.00	SPT	10	11	13	24	-	-		
	1.50															
	2.00				2.00	2.00	2.50	SPT	7	9	10	19	-	-		
	2.50				Reddish brown, fine to medium grained, clayey sand with little gravels (SC) <b>0.00 to 5.60m</b>	2.50	2.50	3.00	UDS	-	-	-	-	-	-	
	3.00			3.00		3.00	3.50	SPT	10	25	20	45	-	-		
	3.50			3.50		3.50	4.00	UDS	-	-	-	-	-	-		
	4.00			4.00		4.00	4.50	SPT	13	20	23	43	-	-		
	4.50			4.50		4.50	5.00	SPT	9	15	19	34	-	-		
	5.00				5.00	5.00	5.50	SPT	5	5	10	15	-	-		
	5.50				Mixture of highly weathered, completely fractured and disintegrated, very weak and friable fractured rock fragments and yellowish brown, fine to coarse grained, clayey sand <b>5.60 to 7.50m</b>	5.50	5.50	6.00	SPT	5	7	12	19	-	-	
	6.00			6.00		6.00	6.50	SPT	10	17	41	58	-	-		
	6.50			6.50		6.50	7.00	SPT	50/9 cm	-	-	>100	-	-		
	7.00				Yellowish brown, fine to coarse grained, clayey sand mixed with highly weathered, completely fractured and disintegrated, very weak and friable fractured rock fragments <b>7.50 to 8.50m</b>	7.00	7.00	7.50	SPT	23	17	25	40	-	-	
	7.50			7.50		7.50	8.00	SPT	10	15	17	32	-	-		
	8.00				Yellowish brown, fine to medium grained, weakly cemented clayey sand <b>8.50 to 13.20m</b>	8.00	8.00	8.50	SPT	12	50/12 cm	-	>100	-	-	
	8.50			8.50		8.50	9.00	SPT	50/7 cm	-	-	>100	-	-		
	9.00			9.00		9.00	9.50	SPT	50/8 cm	-	-	>100	-	-		
	9.50			9.50		9.50	10.00	SPT	50/8 cm	-	-	>100	-	-		
	10.00			10.00		10.00	11.00	SPT	50/9 cm	-	-	>100	-	-		
	10.50				Yellowish brown, fine to medium grained, weakly cemented clayey sand <b>8.50 to 13.20m</b>	11.00	11.00	11.50	SPT	26	18	40	56	-	-	
	11.00			11.50		11.50	12.50	SPT	8	30	47	77	-	-		
	11.50			12.50		12.50	13.00	SPT	12	50/14 cm	-	>100	-	-		
	12.00				Yellowish brown to dark brownish, fine to medium grained, weakly cemented clayey sand <b>13.20 to 17.20m</b>	13.00	13.00	14.00	SPT	50/8 cm	-	-	>100	-	-	
12.50			14.00	14.00		14.50	SPT	50/7 cm	-	-	>100	-	-			
13.00			14.50	14.50		15.50	SPT	50/9 cm	-	-	>100	-	-			
13.50			15.50	15.50		16.00	SPT	15	12	18	30	-	-			
14.00			16.00	16.00		17.00	SPT	50/12cm	-	-	>100	-	-			
14.50				Highly weathered, weak. Yellowish brown, fine to coarse grained, fractured rock <b>17.20 to 22.50m</b>	17.00	17.00	17.50	SPT	50/5cm	-	-	>100	-	-		
15.00			17.50		17.50	18.50	SPT	50/2 cm	-	-	>100	-	-			
15.50			18.50		18.50	19.00	SPT	50/2 cm	-	-	>100	-	-			
16.00			19.00		19.00	20.00	SPT	50/8cm	-	-	>100	-	-			
16.50			20.00		20.00	20.50	SPT	50/9cm	-	-	>100	-	-			
17.00				Moderately weathered, moderately strong, yellowish brown, fine to coarse grained, fractured rock <b>22.50 to 24.00m</b>	20.50	20.50	21.50	SPT	50/8cm	-	-	>100	-	-		
20.00			21.50		21.50	22.00	SPT	50/7cm	-	-	>100	-	-			
20.50			22.00		22.00	22.08	SPT	50/8cm	-	-	>100	-	-			
21.00				Highly weathered, moderately weathered, light yellowish brown, fine to coarse grained, rock with very close spacing of discontinuities	22.50	22.08	22.50	Core	-	-	-	-	44.00	14.00		
21.50			24.00		22.50	25.00	Core	-	-	-	-	27.33	-			
22.00			25.00		24.00	25.00	Core	-	-	-	-	34.00	17.00			
22.50																
23.00																
23.50																
24.00																
24.50																
25.00																

For KCT Consultancy Services..

24.00 to 25.00m



KCTCB

Project : BHEL

Bore Hole No. : 168

Location : Hirma, Talabira

Depth of Termination : 20.0 m

Co-ordinates: N 2129, E 1425

Depth of Water Table : Encountered at 5.10 m depth during investigation

Date of Start: 14-11-2024

Date of Completion: 17-11-2024

Diameter of Bore: 150mm and Nx size

Bit Used: Soil Surface Bit and NX Size

Reduced level: 200.99 m

## BORE LOG DATA SHEET

Method of Boring	Depth m	Casing	Notation	Soil Description	Depth of Sample m	Drill Run		Type of Sample	SPT N Value/Penetration of S.S.S				Core Recovery (%)	RQD (%)	Remarks
						From m	To m		N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N			
Rotary drilling method	0.00	used		Brownish, fine to medium grained, clayey sand (SC) <b>0.00 to 2.20m</b>	0.00	0.00	1.00	DS	-	-	-	-	-	-	
	0.50				1.00	2.00	SPT	1	2	4	6	-	-		
	1.00				2.00	2.50	SPT	3	4	5	9	-	-		
	1.50				2.50	3.00	UDS	-	-	-	-	-	-		
	2.00				3.00	3.50	SPT	5	8	9	17	-	-		
	2.50				3.50	4.00	UDS	-	-	-	-	-	-		
	3.00				4.00	4.50	SPT	9	11	15	26	-	-		
	3.50				4.50	5.00	UDS	-	-	-	-	-	-		
	4.00				5.00	5.50	SPT	13	21	30	51	-	-		
	4.50				5.50	6.00	UDS	-	-	-	-	-	-		
	5.00				6.00	6.50	SPT	31	70/7 cm	-	>100	-	-		
	5.50				6.50	7.00	SPT	51/11 cm	-	-	>100	-	-		
	6.00				7.00	7.50	SPT	55/13 cm	-	-	>100	-	-		
	6.50				7.50	8.00	SPT	56/5 cm	-	-	>100	-	-		
	7.00				8.00	8.50	SPT	33	68/9 cm	-	>100	-	-		
	7.50				8.50	9.00	SPT	28	73/11 cm	-	>100	-	-		
	8.00				9.00	9.50	SPT	55/12 cm	-	-	>100	-	-		
	8.50				9.50	10.00	SPT	61/13 cm	-	-	>100	-	-		
	9.00				10.00	11.00	SPT	55/13 cm	-	-	>100	-	-		
	9.50				11.00	11.50	SPT	51/10 cm	-	-	>100	-	-		
10.00	11.50	12.50	SPT	51/9 cm	-	-	>100	-	-						
10.50	12.50	13.00	SPT	53/8 cm	-	-	>100	-	-						
11.00	13.00	14.00	SPT	55/9 cm	-	-	>100	-	-						
11.50	14.00	14.50	SPT	51/8 cm	-	-	>100	-	-						
12.00	14.50	15.50	SPT	51/7 cm	-	-	>100	-	-						
12.50	15.50	16.00	SPT	51/7 cm	-	-	>100	-	-						
13.00	16.00	16.03	SPT	51/3 cm	-	-	>100	-	-						
13.50	17.00	17.00	Core	-	-	-	-	9.00	-						
14.00	17.00	17.03	SPT	51/3 cm	-	-	>100	-	-						
14.50	18.50	18.50	Core	-	-	-	-	14.00	-						
15.00	18.50	18.53	SPT	51/3 cm	-	-	>100	-	-						
15.50	20.00	20.00	Core	-	-	-	-	23.33	-						
<b>15.60 to 20.00m</b>					20.00	20.00	20.30	SPT	51/3 cm	-	-	>100	-		

