



PROJECT	: GEO-TECHNICAL INVESTIGATION FOR PLANT AREA OF LARA STPP STAGE-II, PUSSORE, RAIGHAR, CHHATTISGARH.		
BORE HOLE NO	: 12	TYPE OF STRUCTURE	DATE COMMENCEI : 27 September 2022
	: BH: 12	LOCATION	DATE COMPLETED : 03 October 2022
COORDINATES N	: 984 W	CORE DIAMETER (mm)	: 75
E	: 1640 S	WEIGHT OF HAMMER (Kg)	: 63.5
GROUND ELEVATION	: 207.23 meter	DIST.FALLING HAMMER (cm)	: 75
TOTAL DEPTH (m)	: 15.00 meter	CASSING DIAMETER (MM)	: 150
		GEO-TECH ENGINE	: NEELAKANTAM
		WATER TABLE	: NOT MET
		DRILLING MASTE	: MGES TEAM
		METHOD OF SAMP	: ROTARY DRILLING

SOIL PROFILE LOG

DATE	DEPTH (m)	Depth of Casing	G.W.L (m)	RECYCLING WATER	HATCHING	BORE PROFILE	SAMPLE DESCRIPTIONS	CORE RECOVERY %	RQD %	SPT TEST	TYPE OF SAMPLE	STANDARD PENETRATION TEST NUMBER OF BLOWS					REMARKS		
												SPT BLOWS 15-30-45 cms							
												10	20	30	40	50			
	0.00										UDS								
	0.50																		
	1.00									SPT		16	18	19	37				
	1.50																		
	2.00										DS								
	2.50						Reddish Brown Medium to Fine Grained Silty Sand mixed with trace of Silty Clayey gravel												
	3.00																		
	3.50																		
	4.00									SPT		19	21	24	45				
	4.50																		
	5.00																		
	5.50																		
	6.00																		
	6.50																		
	7.00																		
	7.50																		
	8.00							26.66											
	8.50																		
	9.00							19.33											
	9.50																		
	10.00						Completely Weathered Rock												
	10.50							22.66	17.30										
	11.00																		
	11.50																		
	12.00							20.66	6.66										
	12.50																		
	13.00																		
	13.50							21.33	7.33										
	14.00																		
	14.50																		
	15.00							34.66	20.69										

REMARK : **SPT**- STANDARD PENETRATION TEST **UDS** - UNDISTURBED SAMPLE **DS** - DISTURBED SAMPLE
RQD- ROCK QUALITY DESIGNTEGRATED **CR**- CORE RECOVERY **GWL**- GROUND WATER LEVEL
RUB- ROAD UNDER BRIDGE **ROB**- ROAD OVER BRIDGE

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607 Created by : SKD Created on : 07/11/2022 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. DBH13 Co-ordinates E=-1218 N=-1675

Field Test	Nos	Samples	Nos	Commencement Date : 22/10/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 25/10/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 204.865 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m.								
Hard, reddish brown, clayey silt with moorum.							DS-1	0.50
							SPT-1	1.50-1.95
2.00m.							UDS-1	2.10-2.55
Very stiff to Hard, brownish grey, clayey silt with decomposed rock.							DS-2	3.00
							SPT-2	3.50-3.95
							DS-3	4.50
5.70m.							SPT-3	5.00-5.45
Very stiff, yellowish brown, clayey silt with decomposed rock.							DS-4	6.00
							*UDS-2	6.50-6.95
							SPT-4	7.00-7.45
							DS-5	8.00
9.20m.							SPT-5	8.50-8.95
Hard, brownish grey, clayey silt with decomposed rock particles.							SPT-6	9.30-9.40
9.70m.							SPT-7	9.70-9.73 9.70
Moderately weathered, light grey, medium grained, fractured rock.							R1	CR=60%/RQD=0% ↓
							R2	CR=50% RQD=Nil ↓
11.00m.							R3	CR=32% RQD=Nil ↓
Highly/moderately weathered, reddish grey to deep grey, medium to fine grained, fractured rock.							R4	CR=27% RQD=Nil ↓
	12.75m.							

NX rotary drilling from 9.70m to 20.00m

BORE LOG DATA SHEET **BORE HOLE NO. DBH13** Co-ordinates $E=-1218$
 $N=-1675$

Field Test	Nos	Samples	Nos	Commencement Date : 22/10/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 25/10/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 204.865 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
Highly/moderately weathered, reddish grey to deep grey, medium to fine grained, fractured rock.	12.75m.								13.00
								R5	CR=39% RQD=Nil
								R6	CR=30% RQD=Nil
								R7	CR=30% RQD=Nil
								R8	CR=39% RQD=Nil
								R9	CR=41% RQD=17%
								R10	CR=41% RQD=Nil
								R11	CR=39% RQD=Nil
									20.00
		20.00m.							

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET BORE HOLE NO. DBH17 Co-ordinates E=-1203 N=-1702

Field Test	Nos	Samples	Nos	Commencement Date : 25/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 27/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 207.896 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.80 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m. Filled up with clayey silt & brick bats.							DS-1	0.50
0.80m.							DS-2 *UDS-1	1.00 1.20-1.27
Hard, reddish brown, clayey silt with moorum.		9	11	21	32		SPT-1	1.50-1.95
							DS-3	2.50
							*UDS-2	3.00-3.45
3.70m.							DS-4	4.00
Hard, brownish grey to yellowish brown, clayey silt with decomposed rock fragments. Observed steel grey patches.							UDS-3	4.50-4.95
							DS-5	5.50
		11	14	17	31		SPT-2	6.00-6.45
							DS-6	7.00
		10	17	23	40		SPT-3	7.50-7.95
							DS-7	8.50
		15	21	24	45		SPT-4	8.80-9.25
		27	00	>100			SPT-5	9.60-9.80
10.00m.		00	5.0 cm Pentn.	Refusal			*SPT-6	10.00-10.03 10.00
Highly weathered, reddish grey to light grey, medium to fine grained, fractured rock.		00	3.0 cm Pentn.				R1	CR=21% RQD=Nil
							R2	CR=23% RQD=Nil
							R3	CR=22% RQD=Nil
12.75m.		NX rotary drilling from 10.00m to 15.00m						



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.



Job No : 4607 Created by : SKD Created on : 07/11/2022 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH17

Co-ordinates E=-1203
N=-1702

Field Test	Nos	Samples	Nos	Commencement Date : 25/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 27/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 207.896 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.80 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly weathered, reddish grey to light grey, medium to fine grained, fractured rock.	12.75m.	↘						R4	13.00 CR=24% RQD=Nil
	15.00m.							R5	14.00 CR=24% RQD=Nil 15.00

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.



Job No : 4607 Created by : SKD Created on : 07/11/2022 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. DBH22 Co-ordinates E=-1223 N=-1723

Field Test	Nos	Samples	Nos	Commencement Date : 20/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	4	Completion Date : 22/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 207.591 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 11.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m. Filled up soil consists of decomposed rock dust with moorum.								DS-1	0.50
0.80m. Hard, reddish brown, clayey silt with moorum.					39			*UDS-1	1.00-1.10
3.00m. Hard, yellowish brown, clayey silt with kankar. Observed decomposed rock.		10	18	21				SPT-1	1.50-1.95
					52			DS-2	2.50
		13	22	30				UDS-2	3.00-3.45
					50			DS-3	4.00
		11	20	30				SPT-2	4.50-4.95
					42			*UDS-3	5.50-5.60
		8	17	25				SPT-3	6.00-6.45
					Refusal			DS-4	7.00
								*UDS-4	7.20-7.45
								SPT-4	7.70-8.15
9.00m. Highly weathered, light grey, medium grained, fractured rock.		00						*SPT-5	9.00-9.03 9.00
								R1	CR=35% RQD=13%
								R2	CR=36% RQD=17%
								R3	CR=39% RQD=Nil
								R4	CR=59% RQD=10%
12.00m. Moderately to slightly weathered, grey to deep grey, medium grained, fractured rock.									
12.75m.									

NX rotary drilling from 9.00m to 20.00m

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.



Job No : 4607 Created by : SKD Created on : 07/11/2022 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. DBH22 Co-ordinates E=-1223 N=-1723

Field Test	Nos	Samples	Nos	Commencement Date : 20/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	4	Completion Date : 22/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 207.591 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 11.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES			
		EACH DIVN. = 15cm						Ref. No	Depth (m)		
Moderately to slightly weathered, grey to deep grey, medium grained, fractured rock.	↖							R5	12.75m. →	13.00	CR=70% RQD=Nil
									14.00	R6	CR=70% RQD=15%
									15.00	R7	CR=58% RQD=Nil
									16.00	R8	CR=76% RQD=20%
									17.00	R9	CR=74% RQD=10%
									18.00	R10	CR=60% RQD=21%
									19.00	R11	CR=65% RQD=25%
									20.00m. →	20.00	

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH23

Co-ordinates E=-1221
N=-1758

Field Test	Nos	Samples	Nos	Commencement Date :	11/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date :	19/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter :	150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground :	206.728 M.
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	Not found.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m.								
Dense, reddish brown, silty sand with moorum, kankars.							*UDS-1	0.50-0.58
							DS-1	0.58
							DS-2	1.50
2.60m.							SPT-1	2.00-2.45
Hard, yellowish brown, silty clay / clayey silt with decomposed rock.							*UDS-2	3.50-3.56
							DS-3	3.56
							DS-4	4.50
6.00m.							SPT-2	5.00-5.40
Highly weathered, light grey, medium grained, fractured rock.							*SPT-3	6.00-6.04 6.00
							R1	CR=33% RQD=21%
							R2	CR=29% RQD=Nil
							R3	CR=34% RQD=24%
							R4	CR=40% RQD=22%
							R5	CR=37% RQD=Nil
							R6	CR=40% RQD=Nil
						R7	CR=39% RQD=12%	

12.75m.

BORE LOG DATA SHEET BORE HOLE NO. DBH23 Co-ordinates E=-1221 N=-1758

Field Test	Nos	Samples	Nos	Commencement Date : 11/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 19/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 206.728 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m. Highly weathered, light grey, medium grained, fractured rock.	↘							R8	13.00 CR=37% RQD=10%
14.00m. Moderately weathered, grey, medium grained, fractured rock.								R9	14.00 CR=49% RQD=32%
15.00m.								R10	15.00 CR=65% RQD=14%
								R11	16.00 CR=55% RQD=Nil
								R12	17.00 CR=58% RQD=26%
								R13	18.00 CR=68% RQD=27%
								R14	19.00 CR=53% RQD=19%
								R15	20.00 CR=65% RQD=Nil
								R16	21.00 CR=60% RQD=36%
								R17	22.00 CR=67% RQD=40%
								R18	23.00 CR=66% RQD=Nil
								R19	24.00 CR=65% RQD=29%
25.00m. N.B. - '*' means sample could not be recovered.									25.00



BORE LOG DATA SHEET

BORE HOLE NO. DBH29

Co-ordinates E=-1204
N=-1784

Field Test	Nos	Samples	Nos	Commencement Date :	09/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date :	11/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter :	150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground :	207.189 M.
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	2.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m. Brownish grey, clayey silt.								*UDS-1 DS-1	0.50-0.55 0.55
0.50m. Reddish brown, clayey silty sand with moorum & kankar.								DS-2	1.50
1.80m.		8	16	22	<u>38</u>			SPT-1	2.00-2.45
								*UDS-2 DS-3	3.50-3.60 3.60
								DS-4	4.50
		30	47	50	<u>>100</u>			SPT-2	5.00-5.35
					5.0 cm Pentn.			DS-5	6.00
								DS-6	6.50
								DS-7	7.50
		18	33	42	<u>75</u>			SPT-3	8.00-8.45
								DS-8	9.00
9.50m.		00			<u>Refusal</u>			*SPT-4 R1	9.50-9.54 9.50 CR=32% RQD=Nil
					4.0 cm Pentn.			R2	CR=27% RQD=Nil
								R3	CR=37% RQD=Nil
								R4	CR=44% RQD=Nil
12.50m. 12.60m.									12.50

NX rotary drilling from 9.50m to 25.00m

BORE LOG DATA SHEET

BORE HOLE NO. DBH29

Co-ordinates $E=-1204$
 $N=-1784$

Field Test	Nos	Samples	Nos	Commencement Date : 09/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 11/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 207.189 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES											
		EACH DIVN. = 15cm						Ref. No	Depth (m)										
Moderately / slightly weathered, deep grey, fine grained, fractured rock.	↘							R5	CR=51% RQD=Nil	12.60m. →	13.25								
								R6	CR=69% RQD=Nil	14.00									
								R7	CR=71% RQD=Nil	14.75									
								R8	CR=69% RQD=Nil	15.50									
								R9	CR=67% RQD=Nil	16.25									
								R10	CR=71% RQD=Nil	17.00									
								R11	CR=65% RQD=15%	17.75									
								R12	CR=64% RQD=Nil	18.50									
								R13	CR=60% RQD=Nil	19.25									
								R14	CR=53% RQD=23%	20.00									
								Highly to moderately weathered, dark grey, fine grained, fractured rock.								R15	CR=49% RQD=Nil	20.00m. →	20.75
																R16	CR=35% RQD=Nil	21.50	
																R17	CR=40% RQD=Nil	22.25	
																R18	CR=44% RQD=20%	23.00	
R19	CR=47% RQD=Nil	23.75																	
R20	CR=60% RQD=Nil	24.50																	
R21	CR=44% RQD=Nil	25.00																	
N.B. - '*' means sample could not be recovered.										25.00m. →									



BORE LOG DATA SHEET

BORE HOLE NO. DBH42

Co-ordinates E=-1810
N=-1012

Field Test	Nos	Samples	Nos	Commencement Date :	11/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date :	14/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter :	150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :	209.508 M.
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	1.75 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m.								*UDS-1 DS-1	0.50-0.57 0.57
Medium dense, brownish grey / reddish brown, clayey silty sand with moorm.								DS-2	1.50
		7	9	13			22	SPT-1	2.00-2.45
								DS-3	3.00
	3.50m.							*UDS-2 DS-4	3.50-3.60 3.60
Hard, yellowish brown, silty clay / clayey silt with decomposed rock.								DS-5	4.50
		19	22	34			56	SPT-2	5.00-5.45
6.00m.								*SPT-3 R1	6.00-6.05 6.00 CR=40% RQD=Nil
Highly / moderately weathered, grey, coarse grained, fractured rock.								R2	6.75 CR=45% RQD=Nil
								R3	7.50 CR=46% RQD=Nil
								R4	8.25 CR=50% RQD=Nil
								R5	9.00 CR=58% RQD=Nil
								R6	9.75 CR=41% RQD=Nil
								R7	10.50 CR=40% RQD=Nil
	11.25m.							R8	11.25 CR=38% RQD=Nil
12.00m.							R9	12.00 CR=42% RQD=21%	
12.60m.									

NX rotary drilling from 6.00m to 24.00m

Refusal

5.0 cm Pentn.

BORE LOG DATA SHEET BORE HOLE NO. DBH42 Co-ordinates E=-1810 N=-1012

Field Test	Nos	Samples	Nos	Commencement Date : 11/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 14/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 209.508 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.75 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Moderately weathered, grey, coarse grained, fractured rock.	↘							R10	12.75 CR=57% RQD=52%
Moderately weathered, grey, coarse grained, fractured rock.								R11	13.50 CR=54% RQD=25%
								R12	14.25 CR=38% RQD=18%
Highly weathered, grey, coarse grained, fractured rock.								R13	15.00 CR=36% RQD=28%
								R14	15.75 CR=44% RQD=35%
								R15	16.50 CR=41% RQD=13%
Highly / moderately weahered, grey, coarse grained, fractured rock.								R16	17.25 CR=44% RQD=33%
								R17	18.00 CR=32% RQD=Nil
								R18	19.00 CR=39% RQD=Nil
								R19	20.00 CR=52% RQD=Nil
								R20	21.00 CR=66% RQD=28%
Moderately to slightly weathered, grey, coarse grained, fractured rock.								R21	22.00 CR=59% RQD=32%
								R22	23.00 CR=61% RQD=15%
									24.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH43

Co-ordinates E=-953
N=-1812

Field Test	Nos	Samples	Nos	Commencement Date : 06/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 08/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.434 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.8 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m. Hard, reddish brown, silty clay / clayey silt with moorum.					41		*UDS-1 DS-1 SPT-1	0.50-0.65 0.65 0.65-1.10
2.00m. Hard, reddish brown, silty clay / clayey silt.					37		SPT-2	2.00-2.45
6.50m. Hard, reddish brown, clayey silt with decomposed rock.					56		*UDS-2 DS-2	3.50-3.60 3.60
							DS-3	4.50
							SPT-3	5.00-5.45
8.50m. Highly weathered, light grey, medium grained, fractured rock.							DS-4	6.00
10.75m. Highly weathered, light grey, medium grained, fractured rock.								
12.25m. Highly weathered, light grey, medium grained, fractured rock.								

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607 Created by : SKD Created on : 28/10/2022 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. DBH43 Co-ordinates E=-953 N=-1812

Field Test	Nos	Samples	Nos	Commencement Date : 06/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 08/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.434 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.8 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly weathered, light grey, medium grained, fractured rock.	↘							R6	CR=25% RQD=Nil 13.00
								R7	CR=28% RQD=Nil 13.75
Highly weathered, light grey, medium grained, fractured rock.								R8	CR=27% RQD=Nil 14.50
								R9	CR=37% RQD=Nil 15.25
								R10	CR=53% RQD=15% 16.00
Moderately weathered, light grey, medium grained, fractured rock.								R11	CR=51% RQD=Nil 16.75
								R12	CR=56% RQD=Nil 17.50
								R13	CR=59% RQD=Nil 18.25
								R14	CR=60% RQD=39% 19.00
								R15	CR=80% RQD=Nil 19.75
								R16	CR=69% RQD=35% 20.50
								R17	CR=80% RQD=36% 21.25
Moderately to slightly weathered / fresh, light grey, medium grained, fractured rock.								R18	CR=77% RQD=15% 22.00
								R19	CR=83% RQD=20% 22.75
								R20	CR=56% RQD=Nil 23.50
								R21	CR=81% RQD=Nil 24.25
N.B. - '*' means sample could not be recovered.								R22	CR=67% RQD=Nil 25.00

BORE LOG DATA SHEET

BORE HOLE NO. DBH44

Co-ordinates E=-882
N=-1813

Field Test	Nos	Samples	Nos	Commencement Date :	11/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date :	12/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter :	150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground :	209.989 M.
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	9.50 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m.								
Hard, reddish brown, clayey silt with moorum.					59		*UDS-1 DS-1	0.50-0.68 0.68
							DS-2	1.00
		17	26	33			SPT-1	1.50-1.95
							DS-3	2.50
3.70m.								
Hard, yellowish brown to brownish grey, silty clay to clayey silt with traces of moorum. Obs. decomposed rock fragments & kankars.					51		*UDS-2 DS-4	3.50-3.95 4.00
		14	22	29			SPT-2	4.50-4.95
							DS-5	5.50
		18	21	33			SPT-3	6.00-6.45
							DS-6	7.00
9.50m.					63		SPT-4	7.50-7.95
		19	26	37			DS-7	8.50
		21	33	50			SPT-5	9.00-9.40
							DS-8	10.00
Hard, reddish grey to brownish grey, clayey silt with decomposed rock.					Refusal			
10.40m.	00					SPT-6	10.40-10.44	
Highly to moderately weathered, dark grey, fine grained, fractured rock.						R1	CR=32% RQD=Nil	
						R2	CR=60% RQD=24%	
						R3	CR=37% RQD=Nil	
12.60m.							11.00 11.75 12.50	

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607 Created by : SKD Created on : 28/10/2022 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. DBH44 Co-ordinates E=-882 N=-1813

Field Test	Nos	Samples	Nos	Commencement Date : 11/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 12/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 209.989 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 9.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Highly to moderately weathered, dark grey, fine grained, fractured rock.	↘	12.60m.						R4	CR=41% RQD=Nil	13.25
								R5	CR=52% RQD=24%	14.00
								R6	CR=35% RQD=Nil	14.75
								R7	CR=41% RQD=Nil	15.50
								R8	CR=55% RQD=Nil	16.25
								R9	CR=35% RQD=Nil	17.00
								R10	CR=43% RQD=Nil	17.75
								R11	CR=28% RQD=Nil	18.50
								R12	CR=36% RQD=Nil	19.25
								R13	CR=45% RQD=Nil	20.00
		20.00m.								

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH45

Co-ordinates E=-913
N=-1826

Field Test	Nos	Samples	Nos	Commencement Date : 06/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 10/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 209.894 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m.								
Hard, reddish brown, clayey silt with moorum.		6	12	21	33		*UDS-1 DS-1 SPT-1	0.50-0.67 0.67 0.67-1.12
1.50m.							DS-2	1.50
Hard, yellowish brown, clayey silt.		11	18	32	50		SPT-2	2.00-2.45
							*UDS-2 DS-3	3.50-3.60 3.60
		14	17	28	45		DS-4	4.50
6.00m.							SPT-3	5.00-5.45
Hard, reddish brown to reddish grey, clayey silt with decomposed rock.		19	39	50	>100		DS-5	6.00
							SPT-4	6.50-6.83
7.50m.		00					*SPT-5	7.50-7.53
Highly/moderately weathered, blackish grey, medium grained, fractured rock.							R1	CR=26% RQD=Nil
							R2	CR=29% RQD=Nil
							R3	CR=33% RQD=Nil
							R4	CR=32% RQD=Nil
							R5	CR=35% RQD=Nil
							R6	CR=34% RQD=Nil
							R7	CR=49% RQD=Nil
12.60m.								

NX rotary drilling from 7.50m to 25.00m

Refusal

>100
3.0 cm Pentn.

00

3.0 cm Pentn.

BORE LOG DATA SHEET

BORE HOLE NO. DBH45

Co-ordinates E=-913
N=-1826

Field Test	Nos	Samples	Nos	Commencement Date : 06/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 10/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 209.894 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.30 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly/moderately weathered, blackish grey, medium grained, fractured rock.	↘	12.60m.							12.75
								R8	CR=32% RQD=Nil
								R9	CR=40% RQD=Nil
								R10	CR=38% RQD=Nil
								R11	CR=64% RQD=24%
								R12	CR=72% RQD=Nil
								R13	CR=61% RQD=Nil
								R14	CR=72% RQD=15%
								R15	CR=80% RQD=Nil
								R16	CR=63% RQD=13%
Moderately to slightly weathered / fresh, light grey to grey, medium grained, fractured rock.		15.00m.							17.25
								R17	CR=51% RQD=Nil
								R18	CR=77% RQD=45%
								R19	CR=65% RQD=13%
								R20	CR=57% RQD=Nil
								R21	CR=85% RQD=Nil
								R22	CR=85% RQD=16%
N.B. - '*' means sample could not be recovered.		25.00m.							24.00
								R23	CR=70% RQD=28%
									25.00



BORE LOG DATA SHEET

BORE HOLE NO. DBH49

Co-ordinates E=-1027
N=-1856

Field Test	Nos	Samples	Nos	Commencement Date : 08/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 11/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 209.789 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m.							
Hard, reddish brown, clayey silt with moorum.						*UDS-1	0.50-0.62
						DS-1	0.62
						DS-2	1.00
2.50m.						SPT-1	1.50-1.95
						DS-3	2.50
						*UDS-2	3.50-3.62
Hard, yellowish brown, clayey silt with decomposed rock.						DS-4	3.62
						DS-5	4.50
						SPT-2	5.00-5.45
8.00m.						DS-6	6.00
						SPT-3	7.20-7.40
						*SPT-4	8.00-8.03
Highly weathered, yellowish grey to grey, fine grained, fractured rock.						R1	8.00
							CR=23% RQD=Nil
						R2	8.75
10.25m.						SPT-5	9.50-9.63
						R3	9.50
							CR=24% RQD=Nil
Highly weathered, yellowish grey to grey, fine grained, fractured rock.						R4	10.25
						SPT-6	11.00-11.10
						R5	11.00
14.00m.							CR=29% RQD=Nil
						SPT-7	12.50-12.58
						R7	12.50
Highly / moderately weathered, light grey to grey, medium grained, fractured fractured rock.							CR=40% RQD=Nil
						R8	13.25
						*SPT-8	14.00-14.03
15.25m.					R9	14.00	
							CR=28% RQD=Nil
						R10	14.75
							CR=35% RQD=Nil

NX rotary drilling from 8.00m to 30.00m

BORE LOG DATA SHEET

BORE HOLE NO. DBH49

Co-ordinates E=-1027
N=-1856

Field Test	Nos	Samples	Nos	Commencement Date :	08/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date :	11/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter :	150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground :	209.789 M.
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	8.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
15.25m.	↘							R11	15.50
Highly/moderately weathered, light grey to grey, medium grained, fractured rock.								R12	16.25
								R13	17.00
								R14	17.75
								R15	18.50
								R16	19.25
								R17	20.00
								R18	20.75
	20.75m.							R19	21.50
21.50m.							R20	22.25	
Highly weathered, light grey to grey, medium grained, fractured rock.								R21	23.00
								R22	23.75
								R23	24.50
								R24	25.25
26.00m.							R25	26.00	
Highly weathered, light grey to grey, medium grained, fractured rock.								R26	26.75
								R27	27.50
27.50m.							R28	28.25	
Highly to moderately weathered, light grey to grey, medium grained, fractured rock.								R29	29.00
									30.00
30.00m.									

N.B. - '*' means sample could not be recovered.

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607 Created by : SKD Created on : 29/10/2022 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH50

Co-ordinates E=-983
N=-1840

Field Test	Nos	Samples	Nos	Commencement Date : 16/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 19/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 210.032 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m.							
Hard, reddish brown, silty clay with moorum.						*UDS-1 DS-1	0.50-0.61 0.61
1.50m.						DS-2	1.50
Hard, yellowish brown, silty clay / clayey silt.		9	15	27	42	SPT-1	2.00-2.45
						DS-3	3.00
						UDS-2	3.50-3.90
						DS-4	4.50
			11	17	31	48	SPT-2
						DS-5	6.00
7.00m.						*SPT-3	7.00-7.05 7.00
Highly weathered, grey, coarse grained, fractured rock.						R1	CR=27% RQD=Nil
						R2	CR=35% RQD=Nil
						R3	CR=24% RQD=Nil
						R4	CR=32% RQD=Nil
						R5	CR=36% RQD=25%
						R6	CR=32% RQD=Nil
12.75m.							

Refusal
5.0 cm Pentr.
NX rotary drilling from 7.00m to 25.00m

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607 Created by : SKD Created on : 29/10/2022 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. DBH50 Co-ordinates E=-983 N=-1840

Field Test	Nos	Samples	Nos	Commencement Date : 16/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 19/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 210.032 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m. Highly weathered, grey, coarse grained, fractured rock.	↘								13.00
13.00m. Highly weathered, grey, coarse grained, fractured rock.								R7	CR=25% RQD=Nil
14.00m. Highly weathered, grey, coarse grained, fractured rock.								R8	CR=32% RQD=17%
15.00m. Highly weathered, grey, coarse grained, fractured rock.								R9	CR=45% RQD=Nil
16.00m. Highly to moderately weathered, grey, coarse grained, fractured rock.								R10	CR=57% RQD=Nil
17.00m. Highly to moderately weathered, grey, coarse grained, fractured rock.								R11	CR=45% RQD=Nil
18.00m. Highly to moderately weathered, grey, coarse grained, fractured rock.								R12	CR=37% RQD=Nil
19.00m. Highly to moderately weathered, grey, coarse grained, fractured rock.								R13	CR=30% RQD=Nil
20.00m. Highly weathered, grey, coarse grained, fractured rock.								R14	CR=28% RQD=Nil
21.00m. Highly weathered, grey, coarse grained, fractured rock.								R15	CR=31% RQD=Nil
22.00m. Moderately weathered, grey, coarse grained, fractured rock.								R16	CR=45% RQD=31%
23.00m. Moderately weathered, grey, coarse grained, fractured rock.								R17	CR=70% RQD=Nil
24.00m. Slightly weathered, grey, coarse grained, fractured rock.								R18	CR=80% RQD=Nil
25.00m. N.B. - '*' means sample could not be recovered.									



BORE LOG DATA SHEET

BORE HOLE NO. DBH51

Co-ordinates E=-939
N=-1837

Field Test	Nos	Samples	Nos	Commencement Date : 12/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 14/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 210.015 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.80 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m Reddish brown, clayey silt sand with moorum.							*UDS-1 DS-1	0.50-0.63 0.63	
1.50m Hard, yellowish brown, clayey silt with sand mixture.		9	13	19	32		DS-2 SPT-1	1.50 2.00-2.45	
6.00m Hard, yellowish brown, clayey silt. (Residual soil),		18	31	50	>100		DS-3 *UDS-2 DS-4	3.00 3.50-3.63 3.63	
10.00m Highly weathered, grey, coarse grained, fractured rock.		30	100	>100	>100		DS-5 SPT-2 DS-6 SPT-3 DS-7	4.50 5.00-5.33 6.00 6.50-6.69 7.20	
15.25m		100	150	Refusal	Refusal		SPT-4 DS-8 *SPT-5	8.00-8.15 8.50 9.00-9.03	
		100	2.0	cm Pentn.			*SPT-6 R1	10.00-10.02 10.00 CR=36% RQD=Nil	
		NX rotary drilling from 10.00m to 30.00m						R2	10.75 CR=28% RQD=Nil
							R3	11.50 CR=29% RQD=Nil	
							R4	12.25 CR=29% RQD=13%	
							R5	13.00 CR=34% RQD=Nil	
							R6	13.75 CR=32% RQD=Nil	
							R7	14.50 CR=32% RQD=Nil	
								15.25	

BORE LOG DATA SHEET

BORE HOLE NO. DBH51

Co-ordinates E=-939
N=-1837

Field Test	Nos	Samples	Nos	Commencement Date : 12/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 14/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 210.015 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.80 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLES		
		EACH DIVN. = 15cm							Depth (m)		
Highly weathered, grey, coarse grained, fractured rock.	↘	15.25m							R8	CR=37% RQD=Nil	15.25
									R9	CR=33% RQD=Nil	16.00
									R10	CR=34% RQD=Nil	16.75
									R11	CR=29% RQD=17%	17.50
									R12	CR=29% RQD=Nil	18.25
									R13	CR=35% RQD=18%	19.00
									R14	CR=35% RQD=Nil	20.00
									R15	CR=41% RQD=Nil	21.00
									R16	CR=35% RQD=Nil	22.00
									R17	CR=45% RQD=25%	23.00
Highly to moderately weathered, grey, coarse grained, fractured rock.		21.00m							R18	CR=41% RQD=Nil	24.00
									R19	CR=44% RQD=15%	25.00
									R20	CR=41% RQD=Nil	26.00
									R21	CR=39% RQD=13%	27.00
									R22	CR=37% RQD=15%	28.00
									R23	CR=43% RQD=20%	29.00
								30.00			

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH52

Co-ordinates E=-1183
N=-1856

Field Test	Nos	Samples	Nos	Commencement Date : 28/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 31/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 207.452 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.64 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m Reddish brown, silty clay with moorum.								UDS-1	0.50-0.85
1.80m								DS-1	1.50
1.80m Very stiff, reddish brown to yellowish brown, silty clay. Observed steel grey patches.		7	10	16		26		SPT-1	2.00-2.45
								DS-2	3.00
								UDS-2	3.50-3.95
5.00m								DS-3	4.50
5.00m Hard, reddish brown to yellowish brown, silty clay. Observed steel grey patches.		18	27	33		60		SPT-2	5.00-5.45
								DS-4	6.00
		16	26	38		64		SPT-3	6.50-6.95
7.50m								DS-5	8.50
7.50m Hard, reddish brown to brownish grey to whitish grey, silty clay with decomposed rock fragments.		100				>100		SPT-4	7.70-7.82
		12.0	cm	Pentn.				DS-5	8.50
		27	39	50		>100		SPT-5	9.00-9.35
								DS-6	10.00
		10	14	23		37		SPT-6	10.50-10.95
12.00m		100				>100		DS-7	11.50
12.00m Highly weathered, light to deep grey, medium to fine grained, fractured rock.		10.0	cm	Pentn.				SPT-7	11.70-11.80
		100				Refusal		*SPT-8	12.00-12.0212.00
		2.0	cm	Pentn.				R1	CR=36% RQD=Nil
12.75m									

NX rotary drilling from 12.00m to 20.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 07/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH52

Co-ordinates E=-1183
N=-1856

Field Test	Nos	Samples	Nos	Commencement Date : 28/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 31/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 207.452 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.64 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly weathered, light to deep grey medium to fine grained, fractured rock.	12.75m							R2	13.00
	13.00m								CR=62% RQD=27%
Moderately to slightly weathered, light to deep grey, medium to fine grained, fractured rock.								R3	14.00
								CR=65% RQD=10%	15.00
								R4	16.00
								CR=56% RQD=14%	17.00
Moderately weathered, light to deep grey, medium to fine grained, fractured rock.	17.00m							R5	17.00
								CR=63% RQD=Nil	18.00
								R6	18.00
								CR=47% RQD=11%	19.00
								R7	19.00
								CR=59% RQD=Nil	20.00
	20.00m							R8	20.00
								CR=50% RQD=Nil	

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH55

Co-ordinates E=-941
N=-1876

Field Test	Nos	Samples	Nos	Commencement Date : 07/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 11/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 211.053 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
0.00m								*UDS-1	0.50-0.60	
Reddish brown, clayey silt with moorum.								DS-1	0.60	
								DS-2	1.50	
2.00m		6	12	18	30			SPT-1	2.00-2.45	
Very stiff, yellowish grey, silty clay.								DS-3	3.00	
								*UDS-2	3.50-3.60	
								DS-4	3.60	
								DS-5	4.50	
5.00m		6	10	22	32			SPT-2	5.00-5.45	
Hard, yellowish grey, silty clay / clayey silt with sand mixture. Obs. traces of decomposed rock fragments.								DS-6	6.00	
								DS-7	6.50	
								*SPT-3	7.00-7.04	
7.00m		100	Refusal					R1	7.00	
Highly / moderately weathered, grey, coarse grained, fractured rock.		NX rotary drilling from 7.00m to 30.00m								7.75
								R2	CR=26% RQD=Nil	8.50
								R3	CR=28% RQD=Nil	9.25
								R4	CR=26% RQD=Nil	10.00
								R5	CR=36% RQD=Nil	10.75
								R6	CR=30% RQD=Nil	11.50
								R7	CR=38% RQD=Nil	12.25
								R8	CR=42% RQD=24%	13.00
								R9	CR=38% RQD=17%	13.75
								R10	CR=34% RQD=Nil	14.50
								R11	CR=36% RQD=14%	15.25
15.25m								CR=41% RQD=Nil	15.25	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH55

Co-ordinates E=-941
N=-1876

Field Test	Nos	Samples	Nos	Commencement Date : 07/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 11/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 211.053 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE							Ref. No	SAMPLES	
		EACH DIVN. = 15cm								Depth (m)	
15.25m Highly/moderately weathered, grey, coarse grained, fractured rock.	↘								R12		
16.00m Highly weathered, grey, coarse grained, fractured rock.									R13	CR=24% RQD=Nil	16.00
16.75m									R14	CR=26% RQD=Nil	16.75
17.50m									R15	CR=33% RQD=Nil	17.50
18.25m									R16	CR=47% RQD=Nil	18.25
19.00m									R17	CR=41% RQD=13%	19.00
19.75m									R18	CR=41% RQD=Nil	19.75
20.50m									R19	CR=44% RQD=20%	20.50
21.25m									R20	CR=49% RQD=15%	21.25
22.00m									R21	CR=40% RQD=14%	22.00
22.75m									R22	CR=53% RQD=30%	22.75
23.50m									R23	CR=41% RQD=Nil	23.50
24.25m									R24	CR=41% RQD=Nil	24.25
25.00m									R25	CR=37% RQD=Nil	25.00
25.75m									R26	CR=54% RQD=Nil	25.75
26.50m									R27	CR=54% RQD=14%	26.50
27.25m									R28	CR=46% RQD=Nil	27.25
28.00m									R29	CR=41% RQD=Nil	28.00
28.75m									R30	CR=53% RQD=18%	28.75
29.50m									R31	CR=80% RQD=50%	29.50
30.00m N.B. - '*' means sample could not be recovered.											30.00



BORE LOG DATA SHEET

BORE HOLE NO. DBH56

Co-ordinates E=-1225
N=-1818

Field Test	Nos	Samples	Nos	Commencement Date : 11/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 12/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 206.883 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m Reddish brown, clayey silt with moorum.							*UDS-1 DS-1	0.50-0.55 0.55	
1.20m							DS-2	1.50	
		9	13	17	30		SPT-1	2.00-2.45	
							*UDS-2 DS-3	3.50-3.55 3.55	
							DS-4	4.50	
Hard, yellowish brown to yellowish grey, silty clay / clayey silt with decomposed rock. Obs. sand mixture & kankar.		13	19	27	46		SPT-2	5.00-5.45	
							DS-5	6.00	
							DS-6	7.50	
		41	50	≥100			SPT-3	8.00-8.20	
		5.0 cm Pentn.						DS-7	9.00
		Refusal						*SPT-4	9.50-9.54
9.50m	52	4.0 cm Pentn.						R1	9.50 CR=22% RQD=Nil
		NX rotary drilling from 9.50m to 25.00m						R2	10.25 CR=24% RQD=Nil
							R3	11.00 CR=21% RQD=Nil	
							R4	11.75 CR=22% RQD=Nil	
12.50m								12.50	
12.75m								↓	

BORE LOG DATA SHEET

BORE HOLE NO. DBH56

Co-ordinates E=-1225
N=-1818

Field Test	Nos	Samples	Nos	Commencement Date : 11/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 12/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 206.883 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLES	
		EACH DIVN. = 15cm							Depth (m)	
12.75m Highly weathered, deep grey, medium grained, fractured rock.	↘							R5	CR=28% RQD=Nil	↕ 13.25
								R6	CR=29% RQD=Nil	↕ 14.00
								R7	CR=33% RQD=Nil	↕ 14.75
14.75m Moderately wethered, dark grey, fine grained, fractured rock.								R8	CR=51% RQD=29%	↕ 15.50
								R9	CR=40% RQD=Nil	↕ 16.25
								R10	CR=40% RQD=19%	↕ 17.00
								R11	CR=44% RQD=Nil	↕ 17.75
								R12	CR=40% RQD=Nil	↕ 18.50
								R13	CR=45% RQD=Nil	↕ 19.25
								R14	CR=48% RQD=Nil	↕ 20.00
								R15	CR=26% RQD=15%	↕ 20.75
								R16	CR=29% RQD=Nil	↕ 21.50
								R17	CR=40% RQD=Nil	↕ 22.25
								R18	CR=29% RQD=Nil	↕ 23.00
								R19	CR=40% RQD=Nil	↕ 23.75
23.75m Moderately to slightly weathered, dark to deep grey, fine grained, fractured rock.								R20	CR=56% RQD=Nil	↕ 24.50
25.00m N.B. - '*' means sample could not be recovered.								R21	CR=78% RQD=28%	↕ 25.00



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 07/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH57

Co-ordinates E=-1142
N=-1894

Field Test	Nos	Samples	Nos	Commencement Date : 22/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	3	Completion Date : 24/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.058 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Filled up soil consists of deep grey, fly ash.	0.00m							
	0.50m						*UDS-1	0.50-0.95
Hard, reddish brown, clayey silt with moorum.		10	14	21	35		SPT-1	1.50-1.95
	2.60m						DS-1	2.50
							UDS-2	3.50-3.95
		12	22	38	60		SPT-2	4.50-4.95
							DS-2	5.50
							*UDS-3	6.00-6.10
		14	31	40	71		SPT-3	6.50-6.95
							DS-3	7.50
Hard, yellowish brown, silty clay with decomposed rock.		19	42	53	>100		SPT-4	8.00-8.40
							DS-4	9.00
		39	57		>100		SPT-5	9.50-9.69
							DS-5	10.00
		100			>100		SPT-6	10.50-10.65
							DS-6	11.50
		100			>100		SPT-7	12.00-12.12
	12.75m							



BH-57/Sheet-1

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 07/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH57

Co-ordinates E=-1142
N=-1894

Field Test	Nos	Samples	Nos	Commencement Date : 22/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	3	Completion Date : 24/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.058 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.6 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES		
		EACH DIVN. = 15cm				Ref. No	Depth (m)	
12.75m Hard, yellowish brown, silty clay with decomposed rock. 13.00m Moderately to slightly weathered, reddish grey to deep grey, fractured rock. 19.00m Highly weathered, deep grey, fractured rock. 20.00m	↗ ↘	Refusal				SPT-8	13.00-13.04	13.00
		100				R1	CR=51% RQD=Nil	↓
		4.0 cm Penth.						14.00
						R2	CR=56% RQD=Nil	↓
								15.00
						R3	CR=63% RQD=26%	↓
								16.00
						R4	CR=50% RQD=12%	↓
						17.00		
				R5	CR=72% RQD=30%	↓		
						18.00		
				R6	CR=66% RQD=11%	↓		
						19.00		
				R7	CR=31% RQD=Nil	↓		
						20.00		

NX rotary drilling from 13.00m to 20.00m

N.B. - '*' means sample could not be recovered.

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH58

Co-ordinates E=-975
N=-1891

Field Test	Nos	Samples	Nos	Commencement Date : 15/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	3	Completion Date : 17/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 210.200 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m Hard, reddish brown, clayey silt with moorum.							*UDS-1 DS-1	0.50-0.58 0.58	
1.50m					40		DS-2	1.50	
1.50m Hard, yellowish brown, silty clay with traces of sand mixture.		10	14	26			SPT-1	2.00-2.45	
							DS-3	3.00	
							UDS-2	3.50-3.95	
							DS-4	4.50	
						54	SPT-2	5.00-5.45	
7.00m Hard, yellowish brown, clayey silt with decomposed rock & sand mixture. (Residual soil).		12	26	28			DS-5	6.00	
							*UDS-3 DS-6	6.50-6.57 6.57	
						>100	SPT-3	7.00-7.19	
10.20m Highly weathered, deep grey, fine grained, fractured rock.		35	100			4.0 cm Pentn.	DS-7	8.00	
							SPT-4	9.50-9.60	
11.00m Highly weathered, deep to light grey, fine grained, fractured rock.		100				>100 10.0 cm Pentn. Refusal	*SPT-5	10.20-10.23	
		100				3.0 cm Pentn.	R1	10.20-10.23 CR=22% RQD=Nil	
12.75m Highly weathered, deep to light grey, fine grained, fractured rock.		NX rotary drilling from 10.20m to 25.00m						R2	11.00 CR=26% RQD=Nil
							R3	12.00 CR=35% RQD=Nil	

BORE LOG DATA SHEET

BORE HOLE NO. DBH58

Co-ordinates E=-975
N=-1891

Field Test	Nos	Samples	Nos	Commencement Date : 15/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	3	Completion Date : 17/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 210.200 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly weathered, deep to light grey, fine grained, fractured rock.	↘							R4	13.00
								R5	14.00
								R6	15.00
								R7	16.00
								R8	17.00
								R9	18.00
								R10	19.00
								R11	20.00
								R12	21.00
								R13	22.00
								R14	23.00
								R15	24.00
									25.00

12.75m
13.00m

Moderately / slightly weathered, grey, coarse grained, fractured rock.

23.00m

Highly weathered, grey, coarse grained, fractured rock.

25.00m

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH59

Co-ordinates E=-1208
N=-1910

Field Test	Nos	Samples	Nos	Commencement Date : 13/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 14/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 206.301 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								*UDS-1 DS-1	0.50-0.55 0.55
Hard, reddish brown, clayey silt with moorum.								DS-2	1.50
								SPT-1	2.00-2.45
								DS-3	3.00
								UDS-2	3.50-3.95
								DS-4	4.50
2.20m	25	21	18					SPT-2	5.00-5.45
								DS-5	6.00
								*UDS-3 DS-6	6.50-6.55 6.55
								*SPT-3	7.00-7.04 7.00
7.00m	100							R1	CR=27% RQD=Nil
								R2	CR=33% RQD=Nil
								R3	CR=34% RQD=Nil
								R4	CR=27% RQD=Nil
								R5	CR=39% RQD=Nil
								R6	CR=60% RQD=22%
12.75m									

Refusal
4.0 cm Pentn.
NX rotary drilling from 7.00m to 25.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH59

Co-ordinates E=-1208
N=-1910

Field Test	Nos	Samples	Nos	Commencement Date : 13/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 14/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 206.301 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.20 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLES	
		EACH DIVN. = 15cm							Depth (m)	
12.75m	↘							R7	CR=49% RQD=Nil	13.00
Highly/moderately weathered, grey, medium to fine grained, fractured rock.								R8	CR=35% RQD=Nil	14.00
								R9	CR=50% RQD=14%	15.00
15.00m								R10	CR=64% RQD=42%	16.00
Moderately weathered, dark grey, fine grained, fractured rock								R11	CR=59% RQD=35%	17.00
								R12	CR=55% RQD=34%	18.00
16.00m								R13	CR=67% RQD=38%	19.00
								R14	CR=62% RQD=10%	20.00
Moderately to slightly weathered, dark grey, fine grained, fractured rock.								R15	CR=74% RQD=28%	21.00
								R16	CR=52% RQD=17%	22.00
25.00m								R17	CR=64% RQD=Nil	23.00
								R18	CR=66% RQD=30%	24.00
N.B. - '*' means sample could not be recovered.										25.00



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH62

Co-ordinates E=-1234
N=-1942

Field Test	Nos	Samples	Nos	Commencement Date : 15/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 16/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 205.543 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m Brownish grey, clayey moorum with kankar & sand mixture.									
0.70m							UDS-1	0.50-0.80	
Hard, reddish brown, clayey moorum with kankar & sand mixture.							DS-1	1.50	
2.50m		10	15	23	38		SPT-1	2.00-2.45	
							DS-2	3.00	
							*UDS-2	3.50-3.95	
							DS-3	3.95	
							DS-4	4.50	
Hard, yellowish brown, silty clay with decomposed rock.							SPT-2	5.00-5.45	
							DS-5	6.00	
							*UDS-3	6.50-6.57	
							DS-6	6.57	
7.50m		100	Refusal				*SPT-3	7.50-7.54 7.50	
		4.0 cm	Penth.				R1	CR=34% RQD=Nil ↓ 8.50	
		NX rotary drilling from 7.50m to 20.00m						R2	CR=36% RQD=11% ↓ 9.50
							R3	CR=40% RQD=Nil ↓ 10.50	
							R4	CR=32% RQD=Nil ↓ 11.50	
							R5	CR=32% RQD=14% ↓ 12.50	
Highly weathered, deep to dark grey, fine grained, fractured rock.								12.50	
12.75m								~	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH62

Co-ordinates E=-1234
N=-1942

Field Test	Nos	Samples	Nos	Commencement Date : 15/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 16/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 205.543 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES		
		EACH DIVN. = 15cm							Ref. No	Depth (m)	
12.75m Highly weathered, deep to dark grey, fine grained, fractured rock.	↘								R6	CR=35% RQD=Nil	↕
13.50m									R7	CR=24% RQD=Nil	↕
									R8	CR=25% RQD=10%	↕
15.50m									R9	CR=26% RQD=Nil	↕
Highly weathered, deep to dark grey, fine grained, fractured rock.									R10	CR=23% RQD=Nil	↕
17.50m									R11	CR=27% RQD=Nil	↕
18.50m									R12	CR=39% RQD=Nil	↕
Highly weathered, deep to dark grey, fine grained, fractured rock.									R13	CR=60% RQD=Nil	↕
19.50m											↕
Moderately weathered, deep to dark grey, fine grained, fractured rock.											↕
20.00m											↕

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH63

Co-ordinates E=-1068
N=-1956

Field Test	Nos	Samples	Nos	Commencement Date : 20/10/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	7	Completion Date : 22/10/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.104 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.70 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES	
		EACH DIVN. = 15cm							Ref. No	Depth (m)
0.00m									*UDS-1	0.50-0.58
Stiff, reddish brown, clayey silt with moorum.									DS-1	0.58
	2.00m	3	4	6	10				SPT-1	1.50-1.95
Hard, yellowish grey, clayey silt / silty clay with decomposed rock.									UDS-2	2.00-2.45
									DS-2	2.50
		4	14	20	34				SPT-2	3.00-3.45
									*UDS-3	3.50-3.59
									DS-3	3.59
		6	15	26	41				SPT-3	4.50-4.95
									*UDS-4	5.00-5.06
									DS-4	5.06
		8	20	25	45				SPT-4	6.00-6.45
									*UDS-5	6.50-6.57
		10	20	26	46				SPT-5	7.50-7.95
									*UDS-6	8.00-8.08
									DS-5	8.08
10.50m		7	17	25	42				SPT-6	9.00-9.45
									*UDS-7	9.50-9.55
Slightly weathered, dark grey, medium to fine grained, fractured rock.									Refusal	
		100							*SPT-7	10.50-10.53
									R1	10.53-10.50
										CR=68%/RQD=0%
										11.00
Highly/moderately weathered, dark grey, medium to fine grained, fractured rock.									R2	CR=68%
										RQD=10%
										12.00
									R3	CR=44%
										RQD=Nil
										12.75m

NX rotary drilling from 10.50m to 20.00m

3.0 cm Pentn.

Refusal



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 08/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH63

Co-ordinates E=-1068
N=-1956

Field Test	Nos	Samples	Nos	Commencement Date : 20/10/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	7	Completion Date : 22/10/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.104 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.70 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES			
		EACH DIVN. = 15cm						Ref. No	Depth (m)		
Highly/moderately weathered, dark grey, medium to fine grained, fractured rock.	↘							R4	12.75m	13.00	CR=35% RQD=Nil
									14.00	CR=30% RQD=Nil	
									15.00	CR=42% RQD=Nil	
									16.00	CR=35% RQD=Nil	
									17.00	CR=37% RQD=Nil	
									18.00	CR=26% RQD=10%	
									19.00	CR=25% RQD=Nil	
									20.00		
									19.00m		
									20.00m		
Highly weathered, dark grey, medium to fine grained, fractured rock.											

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH64

Co-ordinates E=-985
N=-1984

Field Test	Nos	Samples	Nos	Commencement Date : 17/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 19/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.001 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.10 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Reddish brown, silty clay with moorum.								UDS-1	0.50-0.90
1.50m								DS-1	1.50
Very stiff, yellowish brown, silty clay.		6	11	17	28			SPT-1	2.00-2.45
								DS-2	3.00
								UDS-2	3.50-3.95
								DS-3	4.50
5.00m		15	21	26	47			*SPT-2	5.00-5.45
Hard, reddish brown, clayey silt with decomposed rock.		22	25	28	53			SPT-3	6.00-6.45
								DS-4	7.00
		15	18	29	47			SPT-4	7.50-7.95
9.50m		7	9	15	24			SPT-5	8.50-8.95
		100			Refusal			*SPT-6	9.50-9.54 9.50
	Highly weahered, grey, coarse grained, fractured rock.	4.0	cm	Pentn.	Refusal			R1	CR=28%/RQD=0% ↓
10.00m		100			Refusal			*SPT-7	10.00-10.03 10.00
Completely to highly weathered, grey, coarse grained, fractured rock.			3.0	cm	Pentn.			R2	CR=18% RQD=Nil ↓
		100			Refusal			*SPT-8	11.00-11.02 11.00
			2.0	cm	Pentn.			R3	CR=20% RQD=Nil ↓
		NX rotary drilling from 9.50m to 20.00m							
12.75m								R4	CR=22% RQD=Nil ↓



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH64

Co-ordinates E=-985
N=-1984

Field Test	Nos	Samples	Nos	Commencement Date : 17/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 19/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.001 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.10 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES	
		EACH DIVN. = 15cm							Ref. No	Depth (m)
12.75m Completely to highly weathered, grey, coarse grained, fractured rock.	↘								R5	13.00 CR=21% RQD=Nil
									R6	14.00 CR=21% RQD=Nil
									R7	15.00 CR=22% RQD=11%
									R8	16.00 CR=25% RQD=Nil
									R9	17.00 CR=25% RQD=Nil
									R10	18.00 CR=26% RQD=Nil
18.00m Highly weathered, grey, coarse grained, fractured rock.								R11	19.00 CR=30% RQD=Nil	
										20.00
20.00m										

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH65

Co-ordinates E=-1176
N=-1962

Field Test	Nos	Samples	Nos	Commencement Date : 17/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 18/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 206.567 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.80 m.

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	SAMPLES	
		EACH DIVN. = 15cm						Depth (m)	
0.00m Brownish grey, clayey silt with traces of sand mixture.									
0.70m Reddish brown, clayey silt with moorum.							UDS-1	0.50-0.95	
1.60m Very stiff to hard, yellowish brown to brownish grey, silty clay / clayey silt with decomposed rock.		11	13	17	30		DS-1	1.50	
							SPT-1	2.00-2.45	
							DS-2	3.00	
							UDS-2	3.50-3.95	
							DS-3	4.50	
		46	55	15.0 cm Pentn. Refusal	>100		SPT-2	5.00-5.30	
5.50m Highly/moderately weathered, deep to dark grey, fine grained, fractured rock.		100	4.0 cm Pentn.				*SPT-3	5.50-5.54	5.50
							R1	CR=27% RQD=11%	↓ 6.50
							R2	CR=29% RQD=Nil	↓ 7.50
							R3	CR=28% RQD=Nil	↓ 8.50
							R4	CR=36% RQD=Nil	↓ 9.50
							R5	CR=35% RQD=Nil	↓ 10.50
							R6	CR=29% RQD=12%	↓ 11.50
							R7	CR=30% RQD=Nil	↓ 12.50
12.75m									~

NX rotary drilling from 5.50m to 20.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 29/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH65

Co-ordinates E=-1176
N=-1962

Field Test	Nos	Samples	Nos	Commencement Date : 17/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 18/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 206.567 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.80 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES	
		EACH DIVN. = 15cm							Ref. No	Depth (m)
12.75m Highly/moderately weathered, deep to dark grey, fine grained, fractured rock.	↖								R8	CR=42% RQD=Nil ↓ 13.50
									R9	CR=36% RQD=36% ↓ 14.50
									R10	CR=40% RQD=10% ↓ 15.50
15.50m Slightly weathered, deep grey, fine grained, fractured rock.									R11	CR=64% RQD=Nil ↓ 16.50
									R12	CR=76% RQD=13% ↓ 17.50
17.50m Highly weathered, deep grey, fine grained, fractured rock.									R13	CR=27% RQD=Nil ↓ 18.50
									R14	CR=29% RQD=Nil ↓ 19.50
20.00m									R15	CR=40% RQD=20% ↓ 20.00





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

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Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH66

Co-ordinates E=-1117
N=-1982

Field Test	Nos	Samples	Nos	Commencement Date : 19/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 19/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 207.369 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.65 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
Brownish grey, clayey silt.							
0.50m							
Reddish brown, clayey silt with moorum.						UDS-1	0.50-0.95
0.95m						DS-1	1.50
Very stiff to hard, yellowish brown, clayey silt with traces of decomposed rock pieces.		8	9	15	24	SPT-1	2.00-2.45
						DS-2	3.00
						UDS-2	3.50-3.95
						DS-3	4.50
			14	23	28	51	SPT-2
						DS-4	6.00
						*UDS-3	6.50-6.58
		20	36	50	>100	SPT-3	6.58-6.98
					10.0 cm Pentn.		
					Refusal		
7.50m		100				*SPT-4	7.50-7.54 7.50
						R1	CR=31% RQD=Nil ↓
							8.50
						R2	CR=45% RQD=22% ↓
							9.50
						R3	CR=61% RQD=Nil ↓
							10.50
10.50m						R4	CR=45% RQD=31% ↓
							11.50
						R5	CR=54% RQD=24% ↓
							12.50
12.75m							~



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.



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Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH66

Co-ordinates E=-1117
N=-1982

Field Test	Nos	Samples	Nos	Commencement Date : 19/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 19/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 207.369 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.65 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Moderately weathered, dark grey, fine to medium grained, fractured rock.	↘	12.75m						R6	CR=50% RQD=11%
								R7	CR=45% RQD=10%
		15.00m						R8	CR=44% RQD=Nil

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH67

Co-ordinates E=-929
N=-1963

Field Test	Nos	Samples	Nos	Commencement Date : 08/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 10/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 209.919 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.00 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m Reddish brown, clayey silt with moorum.							*UDS-1 DS-1	0.50-0.59 0.59	
2.00m					40		DS-2	1.50	
2.00m Hard, yellowish brown, clayey silt with decomposed rock.		13	19	21			SPT-1	2.00-2.45	
							DS-3	3.00	
							*UDS-2 DS-4	3.50-3.57 3.57	
							DS-5	4.50	
8.00m Highly weathered, yellowish grey, medium grained, fractured rock.					63		SPT-2	5.00-5.45	
							DS-6	6.00	
							SPT-3	7.00-7.14	
8.00m		100							
8.75m					>100				
8.75m					14.0 cm Pentn.				
8.00m					Refusal				
8.00m		100					*SPT-4	8.00-8.04 8.00	
8.75m					4.0 cm Pentn.		R1	CR=25% RQD=Nil	
8.75m Highly weathered, yellowish grey to light grey, medium grained, fractured rock.		NX rotary drilling from 8.00m to 20.00m						R2	CR=33% RQD=Nil
							R3	CR=32% RQD=Nil	
							R4	CR=31% RQD=Nil	
							R5	CR=29% RQD=Nil	
11.00m							R6	CR=36% RQD=Nil	
11.00m								11.00	
11.00m Highly / moderately weathered, deep grey to light yellowish grey, medium grained, fractured rock.								11.75	
								12.50	
12.60m								12.50	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

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Job No : 4607

Created by : SKD

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Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH67

Co-ordinates E=-929
N=-1963

Field Test	Nos	Samples	Nos	Commencement Date : 08/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 10/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 209.919 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Highly / moderately weathered, deep grey to light yellowish grey, medium grained, fractured rock.	↘	12.60m						R7	CR=40% RQD=Nil	↕ 13.25
								R8	CR=57% RQD=Nil	↕ 14.00
								R9	CR=40% RQD=21%	↕ 14.75
								R10	CR=33% RQD=Nil	↕ 15.50
								R11	CR=25% RQD=Nil	↕ 16.25
								R12	CR=35% RQD=Nil	↕ 17.00
								R13	CR=40% RQD=Nil	↕ 17.75
Moderately weathered, deep to light yellowish grey, medium grained, fractured rock.	→	16.25m						R14	CR=51% RQD=Nil	↕ 18.50
								R15	CR=51% RQD=Nil	↕ 19.25
								R16	CR=60% RQD=Nil	↕ 20.00
		20.00m								

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 08/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH68

Co-ordinates E=-1191
N=-2006

Field Test	Nos	Samples	Nos	Commencement Date : 23/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 29/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 205.529 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.60 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLER	Depth (m)
		EACH DIVN. = 15cm								
0.00m										
Reddish brown, clayey silt with moorum.								*UDS-1	0.50-0.54	
								DS-1	1.00	
1.50m					11			SPT-1	1.50-1.95	
Stiff, yellowish brown, silty clay. Observed kankar.		3	4	7				DS-2	2.50	
								*UDS-2	3.00-3.45	
3.45m					28			SPT-2	3.60-4.05	
Very stiff, yellowish brown, silty clay. Observed kankar.		7	11	17				DS-3	4.50	
								SPT-3	5.00-5.45	
4.50m					49			SPT-4	5.70-5.87	
Hard, yellowish brown, silty clay with decomposed rock.		15	22	27				*SPT-5	6.00-6.03	
		54	50		≥100					
		100			Refusal					
		100			Refusal					
6.50m		100			Refusal			*SPT-6	6.50-6.54	6.50
					4.0 cm Pentrn.			R1	CR=47% RQD=11%	↓ 7.50
					NX rotary drilling from 6.50m to 20.00m			R2	CR=26% RQD=Nil	↓ 8.50
								R3	CR=30% RQD=11%	↓ 9.50
								R4	CR=31% RQD=Nil	↓ 10.50
								R5	CR=30% RQD=Nil	↓ 11.50
								R6	CR=35% RQD=Nil	↓ 12.50
12.75m										~

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 08/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH68

Co-ordinates E=-1191
N=-2006

Field Test	Nos	Samples	Nos	Commencement Date : 23/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 29/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 205.529 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.60 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLES	
		EACH DIVN. = 15cm							Depth (m)	
Highly/moderately weathered, deep grey, medium to fine grained, fractured rock.	12.75m							R7	CR=43% RQD=Nil	13.50
								R8	CR=45% RQD=Nil	14.50
								R9	CR=67% RQD=15%	15.50
								R10	CR=28% RQD=Nil	16.50
								R11	CR=35% RQD=Nil	17.50
								R12	CR=30% RQD=Nil	18.50
								R13	CR=29% RQD=Nil	20.00
		20.00m								

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH69

Co-ordinates E=-1043
N=-2013

Field Test	Nos	Samples	Nos	Commencement Date : 28/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	1	Completion Date : 30/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 207.999 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.85 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								DS-1	0.50
Hard, reddish brown, silty clay with moorum.		11	19	25	44			SPT-1	1.00-1.45
2.30m								DS-2	2.00
Yellowish grey, clayey silt with kankar.								UDS-1	2.50-2.95
4.20m		10	13	22	35			SPT-2	4.00-4.45
Hard, yellowish grey to grey, clayey silt with decomposed rock.		46	60	>100				DS-4	5.00
6.00m		100	4.0 cm Pentn.	Refusal				SPT-3	5.50-5.69
Highly weathered, grey, medium grained, fractured rock.								*SPT-4	6.00-6.03 6.00
7.00m								R1	CR=22% RQD=Nil
									7.00
								R2	CR=33% RQD=Nil
									8.00
								R3	CR=38% RQD=Nil
									9.00
								R4	CR=35% RQD=Nil
									10.00
								R5	CR=40% RQD=Nil
									11.00
								R6	CR=50% RQD=15%
									12.00
								R7	CR=40% RQD=14%
12.75m									

NX rotary drilling from 6.00m to 20.00m

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 08/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH69

Co-ordinates E=-1043
N=-2013

Field Test	Nos	Samples	Nos	Commencement Date : 28/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	1	Completion Date : 30/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 207.999 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.85 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES			
		EACH DIVN. = 15cm						Ref. No	Depth (m)		
Highly to moderately weathered, grey, fine grained, fractured rock.	↘							R8	12.75m	13.00	CR=57% RQD=Nil
									14.00	R9	CR=45% RQD=22%
									15.00	R10	CR=43% RQD=Nil
									16.00	R11	CR=44% RQD=10%
									17.00	R12	CR=48% RQD=Nil
									18.00	R13	CR=55% RQD=13%
									19.00	R14	CR=74% RQD=19%
Moderately to slightly weathered, grey, fine grained fractured rock.									20.00m	20.00	

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 31/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH70

Co-ordinates E=-922
N=-2011

Field Test	Nos	Samples	Nos	Commencement Date : 13/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 15/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 209.325 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	SAMPLER	Depth (m)
		EACH DIVN. = 15cm							
0.00m									
Hard, reddish brown to brownish grey, clayey silt with moorum.							*UDS-1	0.50-0.57	
							DS-1	0.57	
							DS-2	1.00	
						44	SPT-1	1.50-1.95	
2.60m							DS-3	2.50	
Hard, yellowish brown, silty clay with decomposed rock fragments.							UDS-2	3.20-3.65	
							SPT-2	4.00-4.35	
4.50m							*SPT-3	4.50-4.53 4.50	
Highly weathered, reddish grey to dark grey, coarse grained, fractured rock.							R1	CR=26% RQD=Nil	
								↓	
							R2	CR=31% RQD=Nil	
								↓	
							R3	CR=55% RQD=Nil	
								↓	
							R4	CR=49% RQD=Nil	
								↓	
6.50m							R5	CR=39% RQD=Nil	
Highly/moderately weathered, dark to light grey, coarse grained, fractured rock.								↓	
							R6	CR=67% RQD=Nil	
								↓	
9.50m							R7	CR=57% RQD=Nil	
Moderately to slightly weathered / fresh, grey, coarse grained, fractured rock.								↓	
							R8	CR=66% RQD=Nil	
								↓	
12.75m								12.50	

NX rotary drilling from 4.50m to 15.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 31/10/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH70

Co-ordinates E=-922
N=-2011

Field Test	Nos	Samples	Nos	Commencement Date : 13/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 15/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 209.325 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Moderately to slightly weathered / fresh, grey, coarse grained, fractured rock.	↘	12.75m						R9	CR=63% RQD=Nil
								R10	CR=66% RQD=15%
								R11	CR=86% RQD=Nil
		15.00m							13.50 14.50 15.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH71

Co-ordinates E=-1271
N=-2041

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.774 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 11.25 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Very stiff, reddish brown, silty clay with moorum.					41		*UDS-1	0.50-0.65
		12	17	24			SPT-1	0.80-1.25
							DS-1	1.50
2.20m		7	8	11			SPT-2	2.00-2.45
Very stiff, reddish brown, silty clay. Observed steel grey patches, & decomposed rock fragments from 5.50m.					19		DS-2	3.00
							UDS-2	3.50-3.95
							DS-3	4.50
						24	SPT-3	5.00-5.45
6.50m		6	9	15			DS-4	6.00
Hard, reddish brown, silty clay. Obs. steel grey patches, & decomposed rock fragments					37		SPT-4	6.50-6.95
							SPT-5	7.20-7.40
7.50m		39	100	5.0	>100		*SPT-6	7.50-7.52 7.50
Highly weathered, reddish grey to greyish black, fine grained, fractured rock.		100			Refusal.		R1	CR=25% RQD=Nil
		2.0			Pentr.		R2	CR=22% RQD=Nil
							R3	CR=30% RQD=Nil
							R4	CR=36% RQD=Nil
							R5	CR=40% RQD=Nil
9.50m								8.50
Highly weathered, reddish grey to greyish black, fine grained, fractured rock.								9.50
								10.50
								11.50
								12.50
	12.75m							

NX rotary drilling from 7.50m to 20.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 16/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH71

Co-ordinates E=-1271
N=-2041

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.774 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 11.25 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES		
		EACH DIVN. = 15cm							Ref. No	Depth (m)	
Highly weathered, reddish grey to greyish black, fine grained, fractured rock.	↗								R6	CR=39% RQD=Nil	12.75m ↓ 13.50
Moderately weathered, light to deep grey, fine to medium grained, fractured rock.									R7	CR=49% RQD=Nil	↓ 14.50
									R8	CR=44% RQD=Nil	↓ 15.50
									R9	CR=44% RQD=Nil	↓ 16.50
Moderately weathered, light to deep grey, fine to medium grained, fractured rock.									R10	CR=52% RQD=11%	↓ 17.50
									R11	CR=58% RQD=24%	↓ 18.50
									R12	CR=46% RQD=Nil	↓ 19.50
									R13	CR=56% RQD=Nil	↓ 20.00

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 16/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH72

Co-ordinates E=-1187
N=-2043

Field Test	Nos	Samples	Nos	Commencement Date : 01/11/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.540 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.50 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLER	Depth (m)
		EACH DIVN. = 15cm								
0.00m										
Brownish grey, clayey silt.								UDS-1	0.50-0.95	
1.00m										
Brownish grey, silty clay with moorum.								DS-1	1.50	
2.00m						17		SPT-1	2.00-2.45	
Very stiff, reddish brown to yellowish brown, silty clay. Observed steel grey patches.		6	8	9				DS-2	3.00	
								UDS-2	3.50-3.95	
								DS-3	4.50	
5.00m						53		SPT-2	5.00-5.45	
Hard, reddish brown to yellowish brown, silty clay. Observed steel grey patches. Also observed decomposed rock.		10	26	27				DS-4	5.60	
		100						*SPT-3	5.80-5.90	
6.00m		100						*SPT-4	6.00-6.03 6.00	
Highly weathered, reddish grey to dark grey, fine grained, fractured rock.								R1	CR=39% RQD=30%	
									7.00	
								R2	CR=39% RQD=14%	
									8.00	
								R3	CR=30% RQD=Nil	
									9.00	
								R4	CR=37% RQD=Nil	
								10.00		
							R5	CR=24% RQD=Nil		
								11.00		
							R6	CR=35% RQD=Nil		
								12.00		
Highly/moderately weathered, deep to blackish grey, fine grained, fractured rock.								R7	CR=47% RQD=19%	
12.00m										
12.75m										

NX rotary drilling from 6.00m to 20.00m

>100 cm Pentn.
Refusal
3.0 cm Pentn.

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 16/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH72

Co-ordinates E=-1187
N=-2043

Field Test	Nos	Samples	Nos	Commencement Date : 01/11/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.540 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly/moderately weathered, deep to blackish grey, fine grained, fractured rock.	12.75m							R8	13.00 CR=43% RQD=10%
								R9	14.00 CR=49% RQD=10%
								R10	15.00 CR=35% RQD=Nil
								R11	16.00 CR=29% RQD=12%
								R12	17.00 CR=40% RQD=Nil
								R13	18.00 CR=32% RQD=11%
								R14	19.00 CR=37% RQD=10%
									20.00
	20.00m								

N.B. - '*' means sample could not be recovered.

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 08/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH73

Co-ordinates E=-1094
N=-2047

Field Test	Nos	Samples	Nos	Commencement Date : 20/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	3	Completion Date : 21/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 207.277 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m Reddish brown, silty clay.									
0.40m								*UDS-1	0.50-0.57
Very stiff to hard, reddish brown, clayey silt with moorum, kankar & sand mixture.		11	17	28	45			SPT-1	1.00-1.45
		6	10	15	25			DS-1	2.00
								SPT-2	2.50-2.95
3.00m								UDS-2	3.50-3.95
Hard, reddish brown, clayey silt.		10	22	31	53			DS-2	4.50
								SPT-3	5.00-5.45
		11	18	27	45			*UDS-3	6.50-6.57
8.00m								SPT-4	6.70-7.15
		26	50	>100				DS-3	7.50
		100	5.0 cm Pentn.	Refusal.				SPT-5	7.70-7.90
Completely to highly weathered, grey, coarse grained, fractured rock.		100	2.0 cm Pentn.					*SPT-6	8.00-8.02 8.00
		100	Refusal.					R1	CR=11% RQD=Nil
		100	2.0 cm Pentn.					*SPT-7	9.00-9.02 9.00
12.75m		100	Refusal.					R2	CR=12% RQD=Nil
		100	3.0 cm Pentn.					*SPT-8	10.00-10.03 10.00
								R3	CR=26% RQD=Nil
									11.00
								R4	CR=22% RQD=Nil
									12.00
								R5	CR=25% RQD=Nil

NX rotary drilling from 8.00m to 20.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 08/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH73

Co-ordinates E=-1094
N=-2047

Field Test	Nos	Samples	Nos	Commencement Date : 20/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	3	Completion Date : 21/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 207.277 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Completely to highly weathered, grey coarse grained, fractured rock.	12.75m	↘							13.00	
	13.00m								13.00	
Highly to moderately weathered, grey, coarse grained, fractured rock.								R6	CR=26% RQD=Nil	14.00
								R7	CR=31% RQD=Nil	15.00
								R8	CR=37% RQD=Nil	16.00
								R9	CR=38% RQD=11%	17.00
								R10	CR=36% RQD=12%	18.00
								R11	CR=41% RQD=13%	19.00
								R12	CR=51% RQD=Nil	20.00
		19.00m								
	Moderately weaehered, grey, coarse grained, fractured rock.	20.00m								

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH74

Co-ordinates E=-944
N=-2048

Field Test	Nos	Samples	Nos	Commencement Date : 16/10/2022
Penetrometer (SPT)	2	Undisturbed (UDS)	2	Completion Date : 29/10/2022
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.110 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.25 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLES	
		EACH DIVN. = 15cm							Depth (m)	
0.00m								*UDS-1	0.50-0.59	
Very stiff, reddish brown, clayey silt with moorum.		10	13	16	29			DS-1	0.59	
								DS-2	1.50	
								SPT-1	2.00-2.45	
2.90m							DS-3	3.00		
Very stiff, yellowish grey to grey, clayey silt with decomposed rock.								*UDS-2	3.50-3.57	
								DS-4	3.57	
5.00m		100								
Highly weathered, deep grey, fine grained, fractured rock.								*SPT-2	5.00-5.03 5.00	
								R1	CR=20% RQD=Nil	
									6.00	
								R2	CR=22% RQD=Nil	
									7.00	
								R3	CR=46% RQD=11%	
									8.00	
								R4	CR=32% RQD=Nil	
									9.00	
								R5	CR=41% RQD=Nil	
									10.00	
								R6	CR=32% RQD=Nil	
									11.00	
								R7	CR=37% RQD=Nil	
12.00m								12.00		
Moderately/slightly weathered, dark to deep grey, fine grained, fractured rock.								R8	CR=67% RQD=37%	
12.75m										

Refusal
3.0 cm Pentn.
NX rotary drilling from 5.00m to 20.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 08/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH74

Co-ordinates E=-944
N=-2048

Field Test	Nos	Samples	Nos	Commencement Date : 16/10/2022
Penetrometer (SPT)	2	Undisturbed (UDS)	2	Completion Date : 29/10/2022
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.110 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.25 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES			
		EACH DIVN. = 15cm							Ref. No	Depth (m)		
Moderately/slightly weathered, dark to deep grey, fine grained, fractured rock.									R9	12.75m	13.00	CR=62% RQD=13%
										14.00	R10	CR=68% RQD=Nil
										15.00	R11	CR=60% RQD=10%
										16.00	R12	CR=65% RQD=Nil
										17.00	R13	CR=56% RQD=14%
										18.00	R14	CR=58% RQD=Nil
										19.00	R15	CR=50% RQD=Nil
										20.00m		

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH75

Co-ordinates E=-1016
N=-2046

Field Test	Nos	Samples	Nos	Commencement Date : 25/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 27/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 208.007 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.70 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Brownish grey, clayey silt.								
0.60m Hard, reddish brown, clayey silt with moorum.		8	15	18	33		UDS-1	0.50-0.75
							SPT-1	1.00-1.45
		9	16	19	35		DS-1	2.00
3.00m Hard, yellowish brown, silty clay with decomposed rock.		10	16	25	41		*UDS-2	3.50-3.95
							SPT-3	4.00-4.45
							DS-2	5.00
5.50m Highly weathered, deep grey, medium grained, fractured rock.		100					SPT-4	5.50-5.54 5.50
							R1	CR=30% RQD=Nil ↓ 6.50
							R2	CR=39% RQD=Nil ↓ 7.50
							R3	CR=73% RQD=32% ↓ 8.50
							R4	CR=33% RQD=Nil ↓ 9.50
							R5	CR=35% RQD=Nil ↓ 10.50
							R6	CR=42% RQD=Nil ↓ 11.50
							R7	CR=35% RQD=Nil ↓ 12.50
12.75m								~

Refusal
NX rotary drilling from 5.50m to 20.00m

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH75

Co-ordinates E=-1016
N=-2046

Field Test	Nos	Samples	Nos	Commencement Date : 25/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 27/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 208.007 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.70 m.

DESCRIPTION	SYMBOL	N-VALUE							Ref. No	SAMPLES	
		EACH DIVN. = 15cm								Depth (m)	
Highly/moderately weathered, grey to dark grey, fine grained, fractured rock.	12.75m								R8	CR=47% RQD=Nil	13.50
									R9	CR=34% RQD=25%	14.50
									R10	CR=65% RQD=Nil	15.50
									R11	CR=45% RQD=Nil	16.50
									R12	CR=48% RQD=12%	17.50
									R13	CR=36% RQD=Nil	18.50
									R14	CR=38%/RQD=20%	19.00
									R15	CR=60% RQD=10%	20.00
Moderately weathered, dark grey, fine grained, fractured rock.	19.00m										
	20.00m										

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 11/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH76

Co-ordinates E=-1037
N=-2078

Field Test	Nos	Samples	Nos	Commencement Date : 31/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 02/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 207.205 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.85 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLER	Depth (m)
		EACH DIVN. = 15cm								
0.00m Brownish grey, clayey silt with traces of moorum.								UDS-1	0.50-0.95	
1.20m Very stiff, reddish brown, silty clay with decomposed rock.		5	8	15	23			SPT-1	1.50-1.95	
3.00m Hard, reddish brown, silty clay with decomposed rock.		10	17	20	37			SPT-2	3.00-3.45	
								*UDS-2	3.50-3.95	
								DS-2	4.00	
		12	18	20	38			SPT-3	4.50-4.95	
								DS-3	5.50	
6.50m Highly to moderately weathered, grey, coarse grained, fractured rock.		55	50	≥100 10.0 cm Pentn. Refusal				SPT-4	6.00-6.25	
		100	4.0 cm Pentn.					SPT-5	6.50-6.54	
		NX rotary drilling from 6.50m to 20.00m						R1	6.50-6.54 CR=39% RQD=Nil	
									7.50	
								R2	CR=35% RQD=Nil	
									8.50	
								R3	CR=34% RQD=Nil	
									9.50	
								R4	CR=43% RQD=10%	
									10.50	
								R5	CR=42% RQD=Nil	
									11.50	
								R6	CR=52% RQD=23%	
									12.50	
12.75m									↓	

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 11/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH76

Co-ordinates E=-1037
N=-2078

Field Test	Nos	Samples	Nos	Commencement Date : 31/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 02/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 207.205 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.85 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m	↘							R7	CR=42% RQD=12%
Highly to moderately weathered, grey, coarse grained, fractured rock.								R8	CR=48% RQD=Nil
								R9	CR=55% RQD=Nil
14.50m								R10	CR=53% RQD=25%
								R11	CR=66% RQD=32%
								R12	CR=58% RQD=Nil
								R13	CR=67% RQD=11%
Moderately to slightly weathered, grey, coarse grained, fractured rock.								R14	CR=62%/RQD=0%
	20.00m								

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH77

Co-ordinates E=-999
N=-2108

Field Test	Nos	Samples	Nos	Commencement Date : 20/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 27/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 208.098 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
0.00m								*UDS-1	0.50-0.58	
Hard, yellowish brown, silty clay.		22	34	42			76	SPT-1	1.00-1.45	
								DS-1	2.00	
								UDS-2	2.50-2.95	
2.50m								DS-2	3.50	
Hard, yellowish brown, silty clay.		11	15	22			37	SPT-2	4.00-4.45	
								DS-3	5.00	
								UDS-3	5.50-5.95	
7.00m								DS-4	6.50	
Highly weathered, grey, coarse grained, fractured rock.		50	Refusal					*SPT-3	7.00-7.05 7.00	
			5.0 cm Pentn.						R1	CR=26% RQD=Nil
			NX rotary drilling from 7.00m to 20.00m						R2	CR=21% RQD=Nil
									R3	CR=27% RQD=Nil
									R4	CR=23% RQD=Nil
									R5	CR=29% RQD=Nil
									R6	CR=22% RQD=Nil
12.75m									12.00	



BH-77/Sheet-1



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH77

Co-ordinates E=-999
N=-2108

Field Test	Nos	Samples	Nos	Commencement Date : 20/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 27/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 208.098 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m	↘							R7	13.00
Highly weathered, grey, coarse grained, fractured rock.									CR=23% RQD=Nil
14.00m								R8	14.00
									CR=30% RQD=Nil
								R9	15.00
									CR=32% RQD=Nil
								R10	16.00
Highly weathered, grey, coarse grained, fractured rock.									CR=26% RQD=Nil
								R11	17.00
									CR=22% RQD=Nil
								R12	18.00
									CR=29% RQD=Nil
								R13	19.00
									CR=25% RQD=Nil
20.00m									20.00

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 17/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH78

Coordinates E=-1113
N=-2103

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 206.422 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.20 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Dense, reddish brown, silty sand. Observed moorum & rock fragments.		18	22	28	50		*UDS-1 DS-1	0.50-0.60 0.80
1.50m							SPT-1	1.00-1.45
Very stiff, yellowish brown to brownish grey, silty clay. Observed steel grey patches. Also observed decomposed rock fragments from 7.50m.		7	9	14	23		DS-2	2.00
							SPT-2	2.50-2.95
							UDS-2	3.50-3.95
							DS-3	4.50
5.00m		9	15	22	37		SPT-3	5.00-5.45
Hard, yellowish brown to brownish grey, silty clay. Observed steel grey patches. Also observed decomposed rock fragments from 7.50m.							DS-4	6.00
		11	16	19	35		SPT-4	6.50-6.95
		13	21	29	50		DS-5	7.50
9.50m							SPT-5	8.00-8.45
		100	Refusal				DS-6	9.00
		7.0 cm	Penth.				*SPT-6	9.30-9.37
Highly weathered, light to dark grey, fine grained, fractured rock.		100	Refusal				*SPT-7	9.50-9.52
		2.0 cm	Penth.				R1	CR=21% RQD=Nil
		NX rotary drilling from 9.50m to 20.00m						
11.50m							R2	CR=22% RQD=Nil
Moderately weathered, dark grey, fine grained, fractured rock.								11.50
							R3	CR=48% RQD=Nil
12.50m								12.50
12.75m								↓

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 17/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH78

Coordinates E=-1113
N=-2103

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 206.422 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Highly to moderately weathered, greyish black to deep grey, fine grained, fractured rock.	↘							R4	CR=37% RQD=Nil	12.75m
								R5	CR=31% RQD=Nil	13.50
								R6	CR=32% RQD=Nil	14.50
								R7	CR=33% RQD=Nil	15.50
								R8	CR=31% RQD=Nil	16.50
								R9	CR=46% RQD=14%	17.50
								R10	CR=41% RQD=Nil	18.50
								R11	CR=50%/RQD=24%	19.50
										20.00m

N.B. - '*' means sample could not be recovered.

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 05/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH79

Co-ordinates E=-933
N=-2103

Field Test	Nos	Samples	Nos	Commencement Date : 16/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	3	Completion Date : 19/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 209.207 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 13.50 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Reddish brown, clayey silt with moorum.							*UDS-1 DS-1	0.50-0.60 0.60
0.80m							DS-2	1.50
Very stiff, reddish brown, clayey silt with kankar.		5	10	11	<u>21</u>		SPT-1	2.00-2.45
							DS-3	3.00
							*UDS-2 DS-4	3.50-3.57 3.57
							DS-5	4.50
			8	11	15	<u>26</u>		SPT-2
8.00m							DS-6	6.00
							*UDS-3 DS-7	6.50-6.59 6.59
							DS-8	7.50
			100	3.0	cm	Refusal	*SPT-3	7.80-7.83
			100	2.0	cm	Refusal	*SPT-4	8.00-8.02 8.00
Completely to highly weathered, light to deep grey, medium grained, fractured rock.							R1	CR=20% RQD=Nil
								9.00
							R2	CR=17% RQD=Nil
							*SPT-5	10.00-10.02 10.00
			100	2.0	cm	Refusal	R3	CR=20% RQD=Nil
								11.00
							R4	CR=21% RQD=Nil
								12.00
12.75m							R5	CR=20% RQD=Nil

NX rotary drilling from 8.00m to 20.00m

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 05/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH79

Co-ordinates E=-933
N=-2103

Field Test	Nos	Samples	Nos	Commencement Date : 16/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	3	Completion Date : 19/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 209.207 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 13.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely to highly weathered, light to deep grey, medium grained, fractured rock.	↘							R6	13.00 CR=24% RQD=Nil
								R7	14.00 CR=25% RQD=11%
15.00m Highly/moderately weathered, light to deep grey, medium grained, fractured rock.								R8	15.00 CR=37% RQD=10%
								R9	16.00 CR=43% RQD=Nil
18.00m Moderately/slightly weathered, light to deep grey, medium grained, fractured rock.								R10	17.00 CR=27% RQD=11%
								R11	18.00 CR=61% RQD=Nil
20.00m								R12	19.00 CR=60% RQD=11%
									20.00

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH80

Co-ordinates E=-1190
N=-2098

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 206.700 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Hard, reddish brown, silty clay with moorum.								*UDS-1	0.50-0.70
								DS-1	1.00
								DS-2	1.50
						45		SPT-1	2.00-2.45
			11	17	28			DS-3	3.00
3.20m								UDS-2	3.50-3.95
Hard, yellowish brown, silty clay with decomposed rock.								DS-4	4.50
								SPT-2	5.00-5.45
							36	DS-5	6.00
			9	15	21			SPT-3	6.50-6.95
			15	28	39			DS-6	7.50
								SPT-4	8.00-8.45
9.00m		100						*SPT-5	9.00-9.06 9.00
Highly weathered, grey, coarse grained, rock.								R1	CR=28% RQD=Nil
									10.00
10.00m								R2	CR=23% RQD=Nil
Highly weathered, grey, coarse grained, rock.									11.00
								R3	CR=23% RQD=11%
									12.00
12.00m								R4	CR=27% RQD=10%
Highly/moderately weathered, grey, coarse grained, rock.									12.75m

Refusal
6.0 cm Pentn.
NX rotary drilling from 9.00m to 20.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH80

Co-ordinates E=-1190
N=-2098

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 206.700 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES				
		EACH DIVN. = 15cm						Ref. No	Depth (m)			
Highly/moderately weathered, grey, coarse grained, rock.	↘								12.75m			
										R5	CR=31% RQD=Nil	13.00
										R6	CR=38% RQD=16%	14.00
										R7	CR=37% RQD=14%	15.00
										R8	CR=40% RQD=31%	16.00
										R9	CR=45% RQD=12%	17.00
										R10	CR=41% RQD=30%	18.00
										R11	CR=40% RQD=Nil	19.00
												20.00
												20.00m

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH81

Co-ordinates E=-1073
N=-2132

Field Test	Nos	Samples	Nos	Commencement Date : 28/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 31/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 208.478 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.50 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m							*UDS-1	0.50-0.70	
Very stiff, yellowish brown, clayey silt.		5	9	15	24		SPT-1	1.00-1.45	
		6	11	17	28		SPT-2	2.00-2.45	
							UDS-2	3.50-3.95	
5.00m							DS-1	4.50	
		10	15	23	38		SPT-3	5.00-5.45	
							DS-2	6.00	
Hard, yellowish brown, silty clay.		13	19	33	52		SPT-4	6.50-6.95	
							DS-3	7.50	
		100	Refusal					SPT-5	8.00-8.04 8.00
8.00m		4.0 cm Pentn.						R1	CR=21% RQD=Nil
		NX rotary drilling from 8.00m to 20.00m							9.00
9.00m							R2	CR=38% RQD=Nil	
							R3	CR=26% RQD=Nil	
Highly weathered, grey, coarse grained, fractured rock.							R4	CR=27% RQD=Nil	
							R5	CR=38% RQD=22%	
12.75m								11.00	
								12.00	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

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Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH81

Co-ordinates E=-1073
N=-2132

Field Test	Nos	Samples	Nos	Commencement Date : 28/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 31/10/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 208.478 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly weathered, grey, coarse grained, fractured rock. 12.75m 13.00m	↘								13.00
Moderately weathered, grey, coarse grained, fractured rock. 14.00m								R6	CR=55% RQD=55%
								R7	CR=25% RQD=Nil
Highly weathered, grey, coarse grained, fractured rock. 17.00m								R8	CR=23% RQD=10%
								R9	CR=21% RQD=Nil
Highly weathered, grey, coarse grained, fractured rock. 20.00m								R10	CR=36% RQD=13%
								R11	CR=27% RQD=Nil
								R12	CR=28% RQD=Nil

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH82

Co-ordinates E=-1059
N=-2160

Field Test	Nos	Samples	Nos	Commencement Date : 22/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 26/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 208.522 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES							
		EACH DIVN. = 15cm						Ref. No	Depth (m)						
Very stiff, reddish brown, silty clay with moorum.	6	11	15	26				UDS-1	0.50-0.90						
								DS-1	1.40						
								SPT-1	2.00-2.45						
								DS-2	3.00						
								UDS-2	3.50-3.95						
								DS-3	4.50						
Hard, reddish brown, clayey silt / silty clay with traces of moorum.	10	19	31	50			SPT-2	5.00-5.45							
							DS-4	6.00							
							*UDS-3	6.50-6.60							
							SPT-3	6.60-7.05							
							*SPT-4 R1	7.50-7.54 7.50 CR=26%/RQD=0%							
							R2	CR=16% RQD=Nil							
Completely to highly weathered, light to deep grey, fine to medium grained, fractured rock.	100	3.0	cm	Pentn.	Refusal		*SPT-5 R3	9.00-9.03 9.00 CR=17% RQD=Nil							
							*SPT-6 R4	10.00-10.02 10.00 CR=23% RQD=Nil							
							R5	CR=20% RQD=Nil							
							R6	CR=20% RQD=Nil							
							NX rotary drilling from 7.50m to 25.00m								
							12.75m								



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH82

Co-ordinates E=-1059
N=-2160

Field Test	Nos	Samples	Nos	Commencement Date : 22/10/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 26/10/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 208.522 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.50 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLES	
		EACH DIVN. = 15cm							Depth (m)	
<p>12.75m</p> <p>Completely to highly weathered, light to deep grey, fine to medium grained, fractured rock.</p> <p>25.00m</p> <p>N.B. - '*' means sample could not be recovered.</p>								R7	13.00	CR=21% RQD=Nil
								R8	14.00	CR=20% RQD=Nil
								R9	15.00	CR=23% RQD=Nil
								R10	16.00	CR=23% RQD=Nil
								R11	17.00	CR=20% RQD=Nil
								R12	18.00	CR=22% RQD=Nil
								R13	19.00	CR=20% RQD=Nil
								R14	20.00	CR=20% RQD=Nil
								R15	21.00	CR=22% RQD=Nil
								R16	22.00	CR=21% RQD=Nil
								R17	23.00	CR=23% RQD=Nil
								R18	24.00	CR=24% RQD=Nil
									25.00	



BH-82/Sheet-2

BORE LOG DATA SHEET

BORE HOLE NO. DBH83

Co-ordinates E=-1040
N=-2153

Field Test	Nos	Samples	Nos	Commencement Date : 19/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	3	Completion Date : 21/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 208.199 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Reddish brown, silty moorum with kankar & decomposed rock fragments.							UDS-1	0.40-0.80
1.50m							DS-1	1.50
Hard, yellowish brown, silty clay.		11	14	18	32		SPT-1	2.00-2.45
							DS-2	3.00
							UDS-2	3.50-3.95
							DS-3	4.50
6.00m		8	16	21	37		SPT-2	5.00-5.45
							DS-4	6.00
Hard, brownish grey, silty clay / clayey silt with decomposed rock.		20	28	41	69		*UDS-3	6.50-6.58
							SPT-3	6.70-7.15
7.50m		100			Refusal		*SPT-4	7.50-7.53 7.50
		3.0	cm	Penth.			R1	CR=26%/RQD=0% ↓
8.00m							R2	CR=14% RQD=Nil ↓
		100			Refusal		*SPT-5	9.00-9.02 9.00
NX rotary drilling from 7.50m to 20.00m		100					R3	CR=24% RQD=Nil ↓
		2.0	cm	Penth.			*SPT-6	11.00-11.02 11.00
Completely to highly weathered, grey, coarse grained, rock.		100			Refusal		R4	CR=16% RQD=Nil ↓
		100					*SPT-7	12.00-12.02 12.00
		100			Refusal		R5	CR=18% RQD=Nil ↓
		100					*SPT-8	12.00-12.02 12.00
		100					R6	CR=20% RQD=Nil ↓
12.75m								

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 05/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH83

Co-ordinates E=-1040
N=-2153

Field Test	Nos	Samples	Nos	Commencement Date : 19/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	3	Completion Date : 21/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 208.199 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely to highly weathered, grey, coarse grained, rock.	↘							R7	13.00 CR=23% RQD=Nil
								R8	14.00 CR=20% RQD=Nil
								R9	15.00 CR=19% RQD=Nil
								*SPT-8	16.00-16.0
								R10	16.00 CR=28% RQD=Nil
								R11	17.00 CR=24% RQD=Nil
18.00m Highly weathered, grey, coarse grained, rock.								R12	18.00 CR=26% RQD=15%
								R13	19.00 CR=38% RQD=Nil
20.00m									20.00

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 17/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH84

Co-ordinates E=-1223
N=-2136

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 207.577 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.8 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLES	
		EACH DIVN. = 15cm								Depth (m)
Very stiff, reddish brown, silty clay with moorum.	0.00m							*UDS-1	0.50-0.62	
		5	7	8	15			SPT-1	1.00-1.45	
								DS-1	2.00	
								UDS-2	2.50-2.95	
		3.50m						DS-2	3.50	
			8	14	19	33			SPT-2	4.00-4.45
Hard, reddish brown, silty clay.								DS-3	5.00	
		12	15	23	38			SPT-3	5.50-5.95	
								DS-4	6.50	
			11	16	19	35			SPT-4	7.00-7.45
									DS-5	8.00
			13	15	26	41			SPT-5	8.50-8.95
Highly weathered, grey, coarse grained, rock.								DS-6	9.50	
		19	26	38	64			SPT-6	10.00-10.45	
	11.00m	100	Refusal					*SPT-7	11.00-11.05 11.00	
		5.0 cm Penth.						R1	CR=21% RQD=Nil	
		NX rotary drilling from 11.00m to 20.00m						R2	CR=40% RQD=Nil	
	12.75m								12.00	

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 17/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH84

Co-ordinates E=-1223
N=-2136

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 207.577 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.8 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m	↘							R3	13.00
Highly weathered, grey, coarse grained, rock.									CR=23% RQD=Nil
14.00m								R4	14.00
									CR=27% RQD=11%
								R5	15.00
									CR=38% RQD=Nil
								R6	16.00
									CR=28% RQD=Nil
Highly to moderately weathered, grey, coarse grained, rock.								R7	17.00
									CR=30% RQD=Nil
								R8	18.00
									CR=46% RQD=Nil
								R9	19.00
									CR=42% RQD=Nil
20.00m									20.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO.

DBH85

Coordinates E=-1174
N=-2177

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 208.328 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.60 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLER	Depth (m)
		EACH DIVN. = 15cm								
0.00m										
Hard, reddish brown, silty clay with moorum.		8	13	19			32	*UDS-1		0.50-0.60
								SPT-1		1.00-1.45
								DS-1		2.00
3.00m		8	14	22			36	*UDS-2		2.50-2.95
Hard, reddish brown, silty clay.								SPT-2		3.05-3.50
								DS-2		4.00
								UDS-3		4.50-4.95
7.00m		19	31	50			>100	SPT-3		6.00-6.38
							8.0 cm Pentn.			
							Refusal			
7.00m		100						*SPT-4	7.00-7.05	7.00
							5.0 cm Pentn.	R1	CR=20% RQD=Nil	↓
										8.00
								R2	CR=20% RQD=Nil	↓
										9.00
								R3	CR=18% RQD=Nil	↓
11.00m		100						*SPT-5	10.00-10.02	10.00
							2.0 cm Pentn.	R4	CR=16% RQD=Nil	↓
							Refusal			
11.00m		100						*SPT-6	11.00-11.03	11.00
							3.0 cm Pentn.	R5	CR=20% RQD=Nil	↓
										12.00
12.75m								R6	CR=21% RQD=Nil	↓



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 11/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH85

DBH85

Coordinates E=-1174
N=-2177

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 208.328 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely to highly weathered, grey, coarse grained, fractured rock.	↘							R7	13.00 CR=21% RQD=Nil
								R8	14.00 CR=26% RQD=Nil
								R9	15.00 CR=23% RQD=Nil
								R10	16.00 CR=25% RQD=Nil
								R11	17.00 CR=25% RQD=Nil
								R12	18.00 CR=29% RQD=10%
18.00m Highly weathered, grey, coarse grained, fractured rock.								R13	19.00 CR=34% RQD=Nil
									20.00
20.00m									

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH86

Co-ordinates E=-940
N=-2162

Field Test	Nos	Samples	Nos	Commencement Date : 18/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 21/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 210.066 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m Reddish brown, clayey silt with moorum.							UDS-1 DS-1	0.50-0.70 0.70	
1.80m Stiff, reddish brown, clayey silt with moorum & kankar.		3	5	11	16		SPT-1 DS-3	2.00-2.45 3.00	
4.50m Hard, reddish brown, clayey silt with kankar.		9	16	25	41		SPT-2 DS-5 UDS-3 DS-6	5.00-5.45 6.00 6.50-6.70 7.00	
8.00m		100			Refusal		*SPT-3	8.00-8.03 8.00	
		3.0	cm	Pentn.			R1	CR=12% RQD=Nil	
		100			Refusal		SPT-4	9.00-9.03 9.00	
		3.0	cm	Pentn.			R2	CR=15% RQD=Nil	
		NX rotary drilling from 8.00m to 20.00m							10.00
							R3	CR=18% RQD=Nil	11.00
							R4	CR=20% RQD=Nil	12.00
12.75m Completely to highly weathered, deep to light grey, fine to medium grained, fractured rock.							R5	CR=21% RQD=Nil	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH86

Co-ordinates E=-940
N=-2162

Field Test	Nos	Samples	Nos	Commencement Date : 18/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 21/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 210.066 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely to highly weathered, deep to light grey, fine to medium grained, fractured rock.	↘							R6	13.00 CR=23% RQD=Nil
14.00m Highly to moderately weathered, deep to light grey, fine to medium grained, fractured rock.								R7	14.00 CR=32% RQD=Nil
								R8	15.00 CR=44% RQD=20%
								R9	16.00 CR=34% RQD=Nil
								R10	17.00 CR=35% RQD=Nil
								R11	18.00 CR=32% RQD=Nil
								R12	19.00 CR=43% RQD=Nil
20.00m									20.00

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.

DBH87

Co-ordinates E=-1017
N=-2180

Field Test	Nos	Samples	Nos	Commencement Date : 02/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 209.240 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.90 m.

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	SAMPLES	
		EACH DIVN. = 15cm						Depth (m)	
0.00m									
Hard, reddish brown, clayey moorum. & rock fragments.							*UDS-1	0.50-0.60	
							DS-1	0.60	
		8	15	23			SPT-1	1.00-1.45	
2.00m									
Hard, reddish brown, silty clay with decomposed rock.							SPT-2	2.50-2.95	
							*UDS-2	3.50-3.60	
		16	22	20			DS-2	3.60	
		9	13	19			SPT-3	4.00-4.45	
							DS-3	5.00	
							*UDS-3	5.50-5.95	
		10	12	18			SPT-4	6.00-6.45	
							DS-4	7.00	
		48	55				SPT-5	7.50-7.80	
							DS-5	8.00	
9.00m		100					SPT-6	9.00-9.04 9.00	
Highly weathered, dark grey, fine grained, fractured rock.							R1	CR=33% RQD=Nil	↓
10.00m									10.00
Completely/highly weathered, dark grey, fine grained, fractured rock.							R2	CR=23% RQD=16%	↓
							R3	CR=20% RQD=Nil	↓
									11.00
12.00m							R4	CR=28% RQD=Nil	↓
Highly weathered, dark grey, fine grained, fractured rock.									12.00
12.75m									

NX rotary drilling from 9.00m to 20.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.

DBH87

Co-ordinates E=-1017
N=-2180

Field Test	Nos	Samples	Nos	Commencement Date : 02/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 209.240 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.90 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m	↘							R5	13.00
Highly weathered, dark grey, fine grained, fractured rock.								R6	14.00
								R7	15.00
15.00m								R8	16.00
								R9	17.00
								R10	18.00
Highly to moderately weathered, brownish grey to deep grey, medium to fine grained, fractured rock.								R11	19.00
									20.00
20.00m									

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO.

DBH88

o-ordinates E=-1113
N=-2166

Field Test	Nos	Samples	Nos	Commencement Date : 01/11/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 02/11/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 208.251 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
0.00m								*UDS-1	0.50-0.65	
Hard, yellowish brown, silty clay.		6	13	18		31		SPT-1	1.00-1.45	
								DS-1	2.00	
								UDS-2	2.50-2.95	
								DS-2	3.50	
		11	23	35		58		SPT-2	4.00-4.45	
								DS-3	5.00	
								UDS-3	5.50-5.90	
								DS-4	6.50	
	7.00m	100	Refusal						*SPT-3	7.00-7.04 7.00
	Highly weathered, grey, coarse grained, fractured rock.		4.0 cm Pentn.						R1	CR=23% RQD=Nil
		NX rotary drilling from 7.00m to 20.00m							8.00	
								R2	CR=22% RQD=Nil	
									9.00	
								R3	CR=22% RQD=Nil	
									10.00	
								R4	CR=21% RQD=Nil	
								11.00		
							R5	CR=25% RQD=Nil		
								12.00		
12.75m								R6	CR=22% RQD=Nil	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 11/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.

DBH88

o-ordinates E=-1113
N=-2166

Field Test	Nos	Samples	Nos	Commencement Date : 01/11/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 03/11/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 208.251 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m	↘							R7	13.00
Highly weathered, grey, coarse grained, fractured rock.									CR=21% RQD=16%
14.00m								R8	14.00
Highly weathered, grey, coarse grained, fractured rock.									CR=30% RQD=Nil
								R9	15.00
									CR=28% RQD=Nil
								R10	16.00
									CR=25% RQD=Nil
								R11	17.00
									CR=30% RQD=Nil
								R12	18.00
Highly weathered, grey, coarse grained, rock.									CR=31% RQD=Nil
								R13	19.00
									CR=37% RQD=Nil
20.00m									20.00

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH89

Co-ordinates E=-797
N=-2084

Field Test	Nos	Samples	Nos	Commencement Date : 21/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 22/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 204.841 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Reddish brown, clayey silt.								UDS-1	0.50-0.85
								DS-1	1.00
1.30m									
Hard, reddish brown, clayey silt.									
								SPT-1	1.50-1.95
								UDS-2	2.00-2.30
								DS-2	2.50
								SPT-2	3.00-3.45
								UDS-3	3.50-3.70
4.00m								*SPT-3	4.00-4.03 4.00
Highly weathered, light to deep grey, fine to medium grained, fractured rock.								R1	CR=21% RQD=Nil
									5.00
								R2	CR=23% RQD=Nil
									6.00
								R3	CR=21% RQD=Nil
									7.00
7.00m								R4	CR=31% RQD=17%
									8.00
								R5	CR=29% RQD=16%
									9.00
								R6	CR=45% RQD=Nil
									10.00
10.00m									

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH90

Co-ordinates E=-548
N=-2210

Field Test	Nos	Samples	Nos	Commencement Date : 31/10/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 204.869 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.00 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Yellowish grey, clayey silt / silty clay						UDS-1	0.50-0.75	
						DS-1	1.50	
1.80m		18	21	17	38	SPT-1	2.00-2.45	
Hard, yellowish grey, clayey silt / silty clay						DS-2	3.00	
						*UDS-2	3.50-3.59	
4.80m		21	41	50	>100	SPT-2	4.00-4.30	
Highly / weathered, yellowish grey, fine to medium grained, fractured rock.		100			Refusal	*SPT-3	4.80-4.82 4.80	
						R1	CR=24% RQD=Nil	↓ 5.50
						R2	CR=54%/RQD=0%	↓ 6.00
7.00m		100			Refusal	*SPT-4	6.00-6.03 6.00	
						R3	CR=23% RQD=Nil	↓ 7.00
						R4	CR=32% RQD=Nil	↓ 8.00
						R5	CR=28% RQD=Nil	↓ 9.00
						R6	CR=26% RQD=Nil	↓ 10.00
Highly weathered, reddish brown, fine to medium grained, fractured rock.		100			Refusal	*SPT-5	10.00-10.03 10.00	
						R7	CR=25% RQD=Nil	↓ 11.00
						R8	CR=32% RQD=Nil	↓ 12.00
12.75m		100			Refusal	*SPT-6	12.00-12.02 12.00	
						R9	CR=26% RQD=Nil	↓

NX rotary drilling from 4.80m to 15.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 11/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH90

Co-ordinates E=-548
N=-2210

Field Test	Nos	Samples	Nos	Commencement Date : 31/10/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 204.869 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly weathered, reddish brown, fine to medium grained, fractured rock.	12.75m							R10	13.00
								R11	14.00
	15.00m	100						*SPT-7	15.00-15.04
		4.0	cm	Penetr.	Refusal				15.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH91

Co-ordinates E=-1061
N=-2266

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	1	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 210.655 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 3.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Dense, reddish brown, clayey silty sand with moorum.					37		DS-1	0.50
		10	17	20			SPT-1	1.00-1.45
							DS-2	2.00
2.30m					40		*UDS-1	2.50-2.63
		10	18	22			SPT-2	3.00-3.45
							DS-3	4.00
		17	29	40			SPT-3	4.50-4.95
7.00m					69		DS-4	5.50
		19	30	57			SPT-4	6.00-6.34
					≥100			
					4.0 cm Pentn. Refusal			
12.75m		100					*SPT-5	7.00-7.05 7.00
							R1	CR=17% RQD=Nil
					≥100		SPT-6	8.00-8.19 8.00
		37	65				R2	CR=19% RQD=Nil
					≥100		SPT-7	9.00-9.12 9.00
					12.0 cm Pentn.		R3	CR=12% RQD=Nil
Completely weathered, brownish grey to light grey, fine grained, fractured rock		36	65				SPT-8	10.00-10.22 10.00
					≥100		R4	CR=10% RQD=Nil
		32	70				SPT-9	11.00-11.27 11.00
					12.0 cm Pentn.		R5	CR=13% RQD=Nil
	100					SPT-10	12.00-12.15 12.00	
				15.0 cm Pentn.		R6	CR=13% RQD=Nil	
				NX rotary drilling from 7.00m to 15.00m				



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 17/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH91

Co-ordinates E=-1061
N=-2266

Field Test	Nos	Samples	Nos	Commencement Date : 04/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	1	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 210.655 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.2 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)
Completely weathered, brownish grey to light grey, fine grained, fractured rock	12.75m	100	4.0 cm	Refusa.	*SPT-11	13.00-13.04 13.00
				≥100	R7	CR=17% RQD=Nil
		100	10.0 cm	Pentn.	SPT-12	14.00-14.10 14.00
				≥100	R8	CR=19% RQD=Nil
	15.19m	3370	4.0 cm	Pentn.	SPT-13	15.00-15.19 15.00

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH92

Co-ordinates E=-954
N=-2271

Field Test	Nos	Samples	Nos	Commencement Date : 31/10/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150mm.
Vane (V)		Disturbed (DS)	10	Level Of Ground : 211.392 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.90 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								DS-1	0.50
Very stiff, reddish brown, silty clay with moorum.		7	8	8				SPT-1	1.00-1.45
								16	
2.20m								DS-2	2.00
Very stiff, yellowish brown, silty clay with kankars.		6	9	15				*UDS-1	2.20-2.65
								24	
4.30m								SPT-2	3.00-3.45
		13	17	24				DS-3	4.00
								41	
		12	14	19				SPT-3	4.50-4.95
								33	
		12	15	18				DS-4	5.50
								33	
		13	17	22				SPT-4	6.00-6.45
								39	
Hard, yellowish brown to brownish grey, clayey silt with sand mixture & decomposed rock.		17	19	29				DS-5	7.00
								33	
		17	19	29				SPT-5	7.50-7.95
								33	
		16	24	33				DS-6	8.50
								39	
		16	24	33				SPT-6	9.00-9.45
								39	
		17	19	29				DS-7	10.00
								48	
		16	24	33				SPT-7	10.50-10.95
								48	
		16	24	33				DS-8	11.50
								57	
		16	24	33				SPT-8	12.00-12.45
								57	
12.75m									



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH92

Co-ordinates E=-954
N=-2271

Field Test	Nos	Samples	Nos	Commencement Date : 31/10/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150mm.
Vane (V)		Disturbed (DS)	10	Level Of Ground : 211.392 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.90 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Dense to very dense, yellowish brown to brownish grey, sandy silt with decomposed rock.	12.75m							DS-9	13.00
		17	23	43	66			SPT-9	13.50-13.95
								DS-10	14.50
	15.00m	100						SPT-10	15.00-15.15
		15cm	Penth.						

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH93

Co-ordinates E=-542
N=-2276

Field Test	Nos	Samples	Nos	Commencement Date : 01/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.173 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.80 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.80
Hard, reddish brown, clayey silt / silty clay with traces of moorum.								DS-1	1.50
								SPT-1	2.00-2.45
								DS-2	3.00
2.00m								*UDS-2	3.50-3.59
								DS-3	3.59
								SPT-2	4.00-4.45
								DS-4	4.80
5.00m								*SPT-3	5.00-5.03 5.00
								R1	CR=22% RQD=Nil
Highly weathered, reddish brown, fine to medium grained, fractured rock.									6.00
								R2	CR=28% RQD=Nil
								*SPT-4	7.00-7.02 7.00
								R3	CR=30% RQD=Nil
								R4	CR=30% RQD=Nil
10.00m								*SPT-5	9.00-9.02 9.00
								R5	CR=27% RQD=Nil
								*SPT-6	10.00-10.02 10.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH94

Co-ordinates E=-1130
N=-2391

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 212.258 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 7.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Reddish brown, clayey silt with moorum.							UDS-1	0.50-0.95
1.50m Very stiff, brownish grey, silty clay.					27		DS-1	1.50
		6	13	14			SPT-1	2.00-2.45
							DS-2	3.00
							UDS-2	3.50-3.95
5.00m Hard, brownish grey, silty clay with decomposed rock.					40		DS-3	4.50
		14	17	23			SPT-2	5.00-5.45
							DS-4	6.00
7.00m		100			>100		SPT-3	6.50-6.63
		13.0 cm			Refusal		*SPT-4	7.00-7.037.00
		100			3.0 cm Pentn.		R1	CR=20% RQD=Nil
							NX rotary drilling from 7.00m to 20.00m	
							R2	CR=27% RQD=Nil
								8.00
							R3	CR=24% RQD=Nil
								9.00
							R4	CR=20% RQD=Nil
								10.00
							R5	CR=21% RQD=Nil
								11.00
							R6	CR=27% RQD=Nil
								12.00
12.75m								

BORE LOG DATA SHEET **BORE HOLE NO. DBH94** Co-ordinates E=-1130 N=-2391

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 212.258 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
Highly weathered light brownish grey to grey, medium grained, fractured rock.	100	13.0	cm	Penth.	≥ 100	SPT-5	15.00-15.13	15.00	
							R7	CR=23% RQD=Nil	13.00
							R8	CR=17% RQD=Nil	14.00
							R9	CR=28% RQD=Nil	16.00
							R10	CR=21% RQD=Nil	17.00
							R11	CR=20% RQD=Nil	18.00
							R12	CR=22% RQD=Nil	19.00
							R13	CR=10% RQD=Nil	20.00
							SPT-6	20.00-20.09	20.00
							Completely/highly weathered, yellowish brown, medium grained fractured rock.	100	9.0

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH95

Co-ordinates E=-1214
N=-2312

Field Test	Nos	Samples	Nos	Commencement Date : 07/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	2	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150mm.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 210.518 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.20 m.

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	SAMPLER	Depth (m)
		EACH DIVN. = 15cm							
0.00m									
Hard, reddish brown, silty clay with moorum.							UDS-1	0.50-0.95	
							DS-1	1.50	
						56	SPT-1	2.00-2.45	
							DS-2	3.00	
							*UDS-2	3.50-3.75	
						63	SPT-2	4.05-4.50	
							DS-3	5.00	
						68	SPT-3	5.50-5.95	
							DS-4	6.50	
						>100	SPT-4	7.00-7.20	
					5.0 cm Pentn.				
8.00m							DS-5	8.00	
Hard, reddish brown, clayey silt.							SPT-5	8.50-8.95	
						72	DS-6	9.50	
						64	SPT-6	10.00-10.45	
							DS-7	11.00	
						>100	SPT-7	11.50-11.83	
					3.0 cm Pentn.				
12.75m							DS-8	12.50	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH95

Co-ordinates E=-1214
N=-2312

Field Test	Nos	Samples	Nos	Commencement Date : 07/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	2	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150mm.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 210.518 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.20 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
Hard, reddish brown, clayey silt.	↘	27	45	50	>100	SPT-8	13.00-13.36
		6.0 cm Pentn.					
		21	29	36	65		
		19	31	50	>100	SPT-10	15.00-15.39
		9.0 cm Pentn.					

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET **BORE HOLE NO. DBH96** Co-ordinates E=-714 N=-2311

Field Test	Nos	Samples	Nos	Commencement Date : 31/10/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	0	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	0	Level Of Ground : 205.369 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Completely/highly weathered, light to brownish grey, fine grained, fractured rock.	12.75m				40			
		16	20	20			SPT-10	13.00-13.45
					≥100		R14	CR=19% RQD=NII
		37	65				SPT-11	14.00-14.28
			13.0	cm Pentn.		R15	CR=18% RQD=NII	
			≥100			SPT-12	15.00-15.15	
	15.00m	100						
			15.0	cm Pentn.				

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH97

Co-ordinates E=-835
N=-2260

Field Test	Nos	Samples	Nos	Commencement Date : 29/10/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 30/10/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 211.293 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.50 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLER	Depth (m)	
		EACH DIVN. = 15cm									
0.00m Brownish grey, clayey silt with kankar.											
0.60m Reddish brown, clayey silt with moorum.								UDS-1		0.50-0.95	
1.10m Very stiff / hard, yellowish brown, silty clay with sand.						32		SPT-1		1.50-1.95	
		6	14	18				DS-1		2.50	
						25		SPT-2		3.00-3.45	
		7	12	13				DS-2		4.00	
4.10m Hard, grey to yellowish brown, clayey silt with sand / sandy silt with rock particles.						44		SPT-3		4.50-4.95	
		8	15	29				DS-3		5.50	
						66		SPT-4		6.00-6.45	
		17	26	40				DS-4		7.00	
						61		SPT-5		7.50-7.95	
		19	24	37				DS-5		8.50	
						44		SPT-6		9.00-9.45	
		20	16	28				DS-6		10.00	
						>100		SPT-7		10.50-10.83	
		17	43	60	3.0 cm Pentn.				DS-7		11.50
12.00m Completely to highly weathered, grey to brownish grey, fine grained, fractured rock.						>100		SPT-8		12.00-12.35	
12.75m		20	51	59	5.0 cm Pentn.			R1		12.00	
		NX rotary drilling from 12.00m to 15.00m								CR=18% RQD=Nil	

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 09/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH97

Co-ordinates E=-835
N=-2260

Field Test	Nos	Samples	Nos	Commencement Date : 29/10/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 30/10/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 211.293 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
Completely to highly weathered, grey to brownish grey, fine grained, fractured rock.	12.75m	100	Refusa.			*SPT-9	13.00-13.04 13.00
			4.0 cm Pentn.			R2	CR=18% RQD=Nil
		100	Refusa.			*SPT-10	14.00-14.03 14.00
			3.0 cm Pentn.			R3	CR=21% RQD=Nil
	15.00m						15.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH98

Co-ordinates E=-281
N=-1883

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	11	Undisturbed (UDS)	1	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	11	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 203.722 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.80 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
Hard, reddish brown, clayey silt / silty clay.						*UDS-1	0.50-0.58
						DS-1	1.00
1.80m				34		SPT-1	1.50-1.95
Hard, reddish brown, clayey silt / silty clay.						DS-2	2.00
						SPT-2	2.50-2.70
3.00m				>100		SPT-2	2.50-2.70
				5.0 cm Pentn.		*SPT-3	3.00-3.02 3.00
				Refusa.		R1	CR=20% RQD=Nil
				2.0 cm Pentn.		*SPT-4	4.00-4.02 4.00
				Refusa.		R2	CR=19% RQD=Nil
				100		SPT-5	5.00-5.07 5.00
				7.0 cm Pentn.		R3	CR=20% RQD=Nil
				Refusa.		*SPT-6	6.00-6.04 6.00
				100		R4	CR=21% RQD=Nil
				4.0 cm Pentn.			7.00
				NX rotary drilling from 3.00m to 15.00m		R5	CR=25% RQD=Nil
Completely to highly weathered, reddish brown, fine to medium grained, fractured rock with clay.				Refusa.		*SPT-7	8.00-8.03 8.00
				100		R6	CR=28% RQD=Nil
				3.0 cm Pentn.			9.00
						R7	CR=18% RQD=Nil
				>100		SPT-8	10.00-10.08 10.00
				100		R8	CR=25% RQD=Nil
				8.0 cm Pentn.			11.00
				Refusa.		R9	CR=23% RQD=Nil
				100		*SPT-9	12.00-12.02 12.00
				2.0 cm Pentn.		R10	CR=25% RQD=Nil
12.75m							



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH98

Co-ordinates E=-281
N=-1883

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	11	Undisturbed (UDS)	1	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	11	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 203.722 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.80 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Completely to highly weathered, reddish brown, fine to medium grained, fractured rock with clay.	12.75m						R11	13.00
							*SPT-10	14.00-14.03 14.00
							R12	14.00-14.03 14.00
	15.04m						SPT-11	15.00-15.04 15.00

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH99

Co-ordinates E=-545
N=-2321

Field Test	Nos	Samples	Nos	Commencement Date : 31/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 205.292 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								*UDS-1	0.50-0.58
Hard, reddish brown, clayey silt with moorum.								DS-1	1.00
	1.80m	9	16	20	36			SPT-1	1.50-1.95
Hard, reddish brown, clayey silt with moorum.								DS-2	2.50
		17	28	35	63			SPT-2	3.00-3.45
		25	35	45	80			SPT-3	4.50-4.95
Hard, reddish brown, clayey silt with moorum.								DS-4	5.50
		45	60	>100				SPT-4	6.00-6.30
								DS-5	7.00
completely/highly weathered, reddish brown, fine to medium grained, fractured rock.	7.50m	100						SPT-5	7.50-7.58 7.50
								R1	CR=26%/RQD=0% ↓
									8.00
								R2	CR=20% RQD=Nil ↓
									9.00
								R3	CR=21% RQD=Nil ↓
Completely/highly weahered, light to deep grey, fine to medium garined, fractured rock.									10.00
								R4	CR=10% RQD=Nil ↓
									11.00
								R5	CR=21% RQD=Nil ↓
									12.00
								R6	CR=20% RQD=Nil ↓
12.75m									12.00

NX rotary drilling from 7.50m to 15.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH99

Co-ordinates E=-545
N=-2321

Field Test	Nos	Samples	Nos	Commencement Date : 31/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 205.292 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely/highly weahered, light to deep grey, fine to medium grained, fractured rock.	↘							R7	13.00
								R8	14.00
15.00m									15.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH100

Co-ordinates E=-293
N=-1952

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 202.993 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.00 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
Hard, reddish brown, silty clay.	0.00m						*UDS-1	0.50-0.56	
					39		SPT-1	1.00-1.45	
			12	16	23		DS-1	2.00	
						60	SPT-2	2.50-2.95	
			13	24	36		DS-2	3.50	
						45	SPT-3	4.00-4.45	
			11	19	26		DS-3	5.00	
						37	SPT-4	5.50-5.95	
			9	18	19		DS-4	6.50	
						≥100	SPT-5	7.00-7.12 7.00	
Highly weathered, reddish brown, medium grained, fractured & decomposed rock.	7.00m	100	12.0 cm Pentn.					R1	CR=25% RQD=Nil
Highly weathered, reddish brown, medium to coarse grained, fractured & decomposed rock.	8.00m	NX rotary drilling from 7.00m to 15.00m					R2	CR=27% RQD=Nil	
						R3	CR=30% RQD=Nil		
						R4	CR=30% RQD=Nil		
						R5	CR=35% RQD=Nil		
						R6	CR=32% RQD=Nil		
	12.75m								

BORE LOG DATA SHEET

BORE HOLE NO. DBH100

Co-ordinates E=-293
N=-1952

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 202.993 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.00 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
Highly weathered, reddish brown, medium to coarse grained, fractured & decomposed rock.	12.75m						13.00
						R7	CR=36% RQD=Nil
		100				SPT-6	14.00-14.12 14.00
		12.0	cm	Pentn.		R8	CR=35% RQD=Nil
	15.00m					SPT-7	15.00-15.08 15.00
		100					
		8.0	cm	Pentn.			

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH101

Co-ordinates E=-347
N=-2046

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	1	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 202.986 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 9.40 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES			
		EACH DIVN. = 15cm					Ref. No	Depth (m)		
0.00m							*UDS-1	0.50-0.57		
Hard, reddish brown, clayey silt / silty clay.		9	15	21	36		DS-1	1.00		
							SPT-1	1.50-1.95		
2.00m							DS-2	2.50		
Stiff, reddish brown, clayey silt / silty clay.		11	18	24	42		SPT-2	3.00-3.45		
							DS-3	4.00		
5.00m		40	50		>100		SPT-3	4.50-4.70		
Completely to highly weathered, reddish brown, fine grained, rock.		NX rotary drilling from 5.00m to 15.00m						R1	5.00 CR=22% RQD=Nil	
		38	95		>100		SPT-4	6.00-6.30 6.00 CR=12% RQD=Nil		
		10	4		>100		SPT-5	7.00-7.15 7.00 CR=14% RQD=Nil		
		10	0		>100		SPT-6	8.00-8.13 8.00 CR=12% RQD=Nil		
		10	8		>100		SPT-7	9.00-9.08 9.00 CR=13% RQD=Nil		
		10	0		Refusal		SPT-8	10.00-10.07 10.00 CR=15% RQD=Nil		
		10	0		>100		SPT-9	11.00-11.09 11.00 CR=10% RQD=Nil		
		10	0		>100		SPT-10	12.00-12.12 12.00 CR=21% RQD=Nil		
		12.75m							R8	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH101

Co-ordinates E=-347
N=-2046

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	1	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 202.986 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 9.40 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
Completely to highly weathered, reddish brown, fine grained, rock.	12.75m	54	50	>100		SPT-11	13.00-13.20 13.00
			5.0 cm Pentn.	>100		R9	CR=23% RQD=Nil
		100	10.0 cm Pentn.	>100		SPT-12	14.00-14.10 14.00
	15.25m	48	100	>100		SPT-13	15.00-15.25 15.00
			10.0 cm Pentn.				

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH102

Co-ordinates E=-1213
N=-2518

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	3	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	9	Level Of Ground : 212.621 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 15.25 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Brownish grey, clayey silt.									
0.50m								*UDS-1	0.50-0.95
Very stiff, reddish brown, clayey silt with moorum.								DS-1	0.95
		6	11	17	<u>28</u>			SPT-1	1.50-1.95
								DS-2	2.50
3.00m								*UDS-2	3.00-3.45
Hard, brownish grey to deep grey, clayey silt with traces of sand mixture & decomposed rock.									
		12	17	23	<u>40</u>			SPT-2	4.00-4.45
								DS-3	5.00
								*UDS-3	5.50-5.60
		14	19	31	<u>50</u>			DS-4	5.60
								SPT-3	6.00-6.45
								DS-5	7.00
	13	17	28	<u>45</u>			SPT-4	7.50-7.95	
							DS-6	8.50	
	12	16	21	<u>37</u>			SPT-5	9.00-9.45	
							DS-7	10.00	
	13	17	22	<u>39</u>			SPT-6	10.50-10.95	
							DS-8	11.50	
	25	34	40	<u>74</u>			SPT-7	12.00-12.45	
12.75m									



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

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Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH102

Co-ordinates E=-1213
N=-2518

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	3	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	9	Level Of Ground : 212.621 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 15.25 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
12.75m	↘							DS-9	13.00	
Hard, brownish grey to deep grey, clayey silt with decomposed rock.		30	52	50	≥100 5.0 cm Pentn.			SPT-8	13.50-13.85	
14.00m								*SPT-9	14.00-14.04 14.00	
Highly weathered, brownish grey, medium grained, fractured rock.		100	Refusal			NX rotary drilling from 14.00m to 15.00m			R1	CR=34% RQD=Nil
15.00m									↓ 15.00	

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH103

Co-ordinates E=-84.3
N=-239.1

Field Test	Nos	Samples	Nos	Commencement Date : 02/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	3	Completion Date : 03/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	12	Level Of Ground : 208.769 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.50 m.

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	Depth (m)
		EACH DIVN. = 15cm						
0.00m								
Very stiff to hard, yellowish brown, silty clay with kankar & decomposed rock.							UDS-1	0.50-0.95
							DS-1	1.50
		4	7	15	<u>22</u>		SPT-1	2.00-2.45
							DS-2	3.00
							*UDS-2	3.50-3.60
		7	13	21	<u>34</u>		SPT-2	4.00-4.45
							DS-3	5.00
							*UDS-3	5.50-5.58
		8	11	17	<u>28</u>		SPT-3	6.00-6.45
							DS-4	7.00
7.50m	19	25	35	<u>60</u>		SPT-4	7.50-7.95	
Hard, brownish grey, silty clay with decomposed rock particles.							DS-5	8.50
		14	25	32	<u>57</u>		SPT-5	9.00-9.45
							DS-6	10.00
		15	28	36	<u>64</u>		SPT-6	10.50-10.95
							DS-7	11.50
12.75m	16	29	42	<u>71</u>		SPT-7	12.00-12.45	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH103

Co-ordinates E=-843
N=-2391

Field Test	Nos	Samples	Nos	Commencement Date : 02/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	3	Completion Date : 03/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	12	Level Of Ground : 208.769 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.50 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Hard, brownish grey, silty clay with decomposed rock particles.	12.75m						DS-8	13.00
					65		SPT-8	13.50-13.95
							DS-9	14.50
					>100		SPT-9	15.00-15.30
							DS-10	16.00
					>100		SPT-10	16.50-16.80
							DS-11	17.50
					>100		SPT-11	18.00-18.25
							DS-12	19.00
					>100		SPT-12	20.00-20.20

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.



Job No : 4607

Created by : SKD

Created on : 16/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH104

Co-ordinates E=-844 N=-2519

Field Test	Nos	Samples	Nos	Commencement Date :	04/11/2022
Penetrometer (SPT)	16	Undisturbed (UDS)	3	Completion Date :	05/11/2022
Cone (Pc)		Penetrometer (SPT)	16	Bore Hole Diameter :	150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground :	207.253 m.
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	8.70 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
Yellowish brown, clayey silt / silty clay.						UDS-1	0.50-0.80
						DS-1	1.50
1.80m							
Hard, reddish brown, clayey silt / silty clay.		11	15	23	38	SPT-1	2.00-2.45
						DS-2	3.00
						UDS-2	3.50-3.85
						DS-3	4.00
4.80m							
Hard, reddish brown, clayey silt / silty clay.		23	27	34	61	SPT-2	5.00-5.45
						DS-4	6.00
						*UDS-3	6.50-6.59
8.00m							
Completely to highly weathered, reddish brown, fine to medium grained, fractured rock.		100			Refusa.	*SPT-4	8.00-8.03 8.00
			3.0	cm Pentn.		R1	CR=21% RQD=Nil ↓
					≥100		
		100			10.0	SPT-5	9.00-9.10 9.00
					10.0	R2	CR=19% RQD=Nil ↓
					≥100		
		100			8.0	SPT-6	10.00-10.08 10.00
					8.0	R3	CR=18% RQD=Nil ↓
12.75m							
		100			Refusa.	*SPT-7	11.00-11.02 11.00
			2.0	cm Pentn.		R4	CR=18% RQD=Nil ↓
					≥100		
	100				9.0	SPT-8	12.00-12.09 12.00
					9.0	R5	CR=23% RQD=Nil ↓
					9.0		
					NX rotary drilling from 8.00m to 20.00m		



BORE LOG DATA SHEET

BORE HOLE NO. DBH104

Co-ordinates E=-844
N=-2519

Field Test	Nos	Samples	Nos	Commencement Date : 04/11/2022
Penetrometer (SPT)	16	Undisturbed (UDS)	3	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	16	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 207.253 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.70 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)
Completely to highly weathered, reddish brown, fine to medium grained, fractured rock.	12.75m	100	Refusal		*SPT-9	13.00-13.04 13.00
		4.0	cm Pentn.		R6	CR=22% RQD=Nil
		100	>100		SPT-10	14.00-14.08 14.00
		8.0	cm Pentn.		R7	CR=18% RQD=Nil
		100	Refusal		*SPT-11	15.00-15.02 15.00
		2.0	cm Pentn.		R8	CR=19% RQD=Nil
		100	Refusal		*SPT-12	16.00-16.04 16.00
		4.0	cm Pentn.		R9	CR=22% RQD=Nil
		100	>100		SPT-13	17.00-17.10 17.00
		10.0	cm Pentn.		R10	CR=20% RQD=Nil
		100	Refusal		*SPT-14	18.00-18.04 18.00
		4.0	cm Pentn.		R11	CR=20% RQD=Nil
		100	>100		SPT-15	19.00-19.11 19.00
		11.0	cm Pentn.		R12	CR=21% RQD=Nil
		20.00m	100	>100	SPT-16	20.00-20.08 20.00
			8.0	cm Pentn.		

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH105

Co-ordinates E=-712
N=-2517

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 206.245 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.70 m.

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	SAMPLES	
		EACH DIVN. = 15cm						Depth (m)	
0.00m									
Hard, reddish brown, clayey silt / silty clay with kankar.							UDS-1	0.50-0.80	
							DS-1	1.50	
		11	15	23	38		SPT-1	2.00-2.45	
							DS-2	3.00	
3.00m Hard, reddish brown, clayey silt / silty clay with traces of light moorum.							*UDS-2	3.50-3.85	
		19	29	35	64		SPT-2	4.00-4.45	
							DS-3	5.00	
		100				Refusal	*SPT-3	5.50-5.53	5.50
5.50m Completely/highly weathered, reddish brown, fine to medium grained, fractured rock.							R1	CR=22% RQD=Nil	↓ 6.50
							R2	CR=28% RQD=Nil	↓ 7.50
		100				>100	SPT-4	7.50-7.58	7.50
							R3	CR=27% RQD=Nil	↓ 8.50
		100				>100	SPT-5	9.50-9.60	9.50
							R5	CR=22% RQD=Nil	↓ 10.50
		100				Refusal	*SPT-6	11.50-11.52	11.50
						R7	CR=26% RQD=Nil	↓ 12.50	
12.75m									



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 16/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH105

Co-ordinates E=-712
N=-2517

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 206.245 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.70 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely/highly weathered, reddish brown, fine to medium grained, fractured rock.	↘							R8	CR=18% RQD=Nil
13.50m Highly weathered, reddish brown, fine to medium grained, fractured rock.		100						*SPT-7	13.50-13.53 13.50
								R9	CR=29% RQD=Nil
								R10	CR=26%/RQD=0%
15.00m		100						SPT-8	15.00-15.09 15.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO.DBH106

Co-ordinates E=-524
N=-2473

Field Test	Nos	Samples	Nos	Commencement Date : 02/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	3	Completion Date : 03/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.025 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Yellowish brown, clayey silt / silty clay.							UDS-1	0.50-0.70
							DS-1	1.50
1.80m					38		SPT-1	2.00-2.45
Hard, reddish brown, clayey silt / silty clay.		10	17	21			DS-2	3.00
							*UDS-2	3.50-3.59
		12	20	25		45	SPT-2	4.00-4.45
							DS-3	5.00
6.00m		11	22	20		42	SPT-3	5.50-5.95
Hard, reddish brown, clayey silt / silty clay.							*UDS-3	6.50-6.58
		15	25	32		57	SPT-4	7.00-7.45
8.00m		100				Refusa.	DS-4	7.80
Completely/highly weathered, reddish brown, fine grained, fractured rock.							*SPT-5	8.00-8.03 8.00
							R1	CR=30% RQD=Nil
								9.00
							R2	CR=22% RQD=Nil
							SPT-6	10.00-10.10 10.00
		100				>100	R3	CR=31% RQD=Nil
								11.00
							R4	CR=20% RQD=Nil
12.00m		100				>100	SPT-7	12.00-12.15 12.00
Highly weathered, reddish brown, fine grained, fractured rock.							R5	CR=28% RQD=Nil
12.75m								

NX rotary drilling from 8.00m to 15.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 16/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH106

Co-ordinates E=-524
N=-2473

Field Test	Nos	Samples	Nos	Commencement Date : 02/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	3	Completion Date : 03/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.025 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Highly weathered, reddish brown, fine grained, rock.	12.75m							13.00
						R6	CR=29% RQD=Nil	↓
		100	4.0 cm	Pentn.		*SPT-8	14.00-14.04	14.00
	15.00m					R7	CR=28% RQD=Nil	↓
		100	8.0 cm	Pentn.		SPT-9	15.00-15.08	15.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH107

Co-ordinates E=-477
N=-2550

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 03/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 204.976 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.80 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Reddish brown, clayey silt / silty clay with moorum.								UDS-1	0.50-0.80
								DS-1	1.50
1.80m									
Hard, reddish brown, clayey silt / silty clay with moorum.		7	15	29	44			SPT-1	2.00-2.45
								DS-2	3.00
								*UDS-2	3.50-3.57
		12	23	34	57			SPT-2	4.00-4.45
5.00m									
Completely/highly weathered, reddish brown, fine to medium grained, fractured rock.		100						Refusal	
								*SPT-3	5.00-5.02 5.00
								R1	CR=23% RQD=Nil
									6.00
								R2	CR=28% RQD=Nil
								*SPT-4	7.00-7.03 7.00
		100						Refusal	
								R3	CR=19% RQD=Nil
									8.00
								R4	CR=20% RQD=Nil
		100						*SPT-5	9.00-9.02 9.00
								R5	CR=19% RQD=Nil
									9.00
10.00m		100						*SPT-6	10.00-10.03 10.00

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH108

Co-ordinates E=-1034
N=-2519

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	12	Level Of Ground : 211.193 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 14.20 m.

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	Depth (m)
		EACH DIVN. = 15cm						
0.00m								
Brownish grey, clayey silt.							UDS-1	0.50-0.95
1.10m								
Very stiff to hard, clayey silt with moorum.		10	11	14	25		SPT-1	1.50-1.95
							DS-1	2.50
		10	14	20	34		SPT-2	3.00-3.45
3.25m							*UDS-2	3.50-3.60
Hard, yellowish brown, silty clay with decomposed rock.							DS-2	3.60
		9	20	24	44		SPT-3	4.00-4.45
							DS-3	5.00
		12	28	35	63		SPT-4	5.50-5.95
							DS-4	6.50
		21	32	50	>100		SPT-5	7.50-7.90
					10.0 cm Pentn.		DS-5	8.50
		26	38	50	>100		SPT-6	9.00-9.35
					5.0 cm Pentn.		DS-6	10.00
		52	55		>100		SPT-7	10.50-10.75
					10.0 cm Pentn.		DS-7	11.50
		52	50		>100		SPT-8	12.00-12.20
					5.0 cm Pentn.			
12.75m								



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH108

Co-ordinates E=-1034
N=-2519

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	12	Level Of Ground : 211.193 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 14.20 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
12.75m Hard, yellowish brown, silty clay with decomposed rock.	↘						DS-8	13.00
		100					SPT-9	14.00-14.15
							DS-9	15.00
		47	55				SPT-10	15.50-15.70
17.00m Hard, brownish grey, clayey silt with decomposed rock.	↘						DS-10	16.50
		15	53	50			SPT-11	17.00-17.35
							DS-11	18.00
		43	70				SPT-12	18.50-18.75
20.20m	↘						DS-12	19.50
		41	70				SPT-13	20.00-20.20

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 18/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH109

Co-ordinates E=-671
N=-2573

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	15	Undisturbed (UDS)	1	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 206.095 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.80 m.

DESCRIPTION	SYMBOL	N-VALUE				Ref. No	SAMPLES
		EACH DIVN. = 15cm					
0.00m							
Reddish brown, clayey silt with traces of moorum.						*UDS-1	0.50-0.58
						DS-1	1.00
1.50m		15	39	42	81	SPT-1	1.50-1.95
Hard, reddish brown, clayey silt / silty clay with traces of moorum.						DS-2	2.50
		24	38	49	87	SPT-2	3.00-3.45
		52	100		>100	DS-3	3.80
		5.0	cm		Pentn.	SPT-3	4.00-4.20
4.50m		100			Refusal	*SPT-4	4.50-4.53 4.50
		3.0	cm		Pentn.	R1	CR=17% RQD=Nil ↓
		NX rotary drilling from 4.50m to 15.00m					
		100			>100	SPT-5	5.50-5.60 5.50
		10.0	cm		Pentn.	R2	CR=13% RQD=Nil ↓
					Refusal		
		100			>100	SPT-6	6.50-6.57 6.50
		7.0	cm		Pentn.	R3	CR=12% RQD=Nil ↓
		100			>100	SPT-7	7.50-7.58 7.50
		8.0	cm		Pentn.	R4	CR=20% RQD=Nil ↓
					Refusal		
Completely to highly weathered, reddish brown, fine to medium grained, fractured rock.		100			>100	*SPT-8	8.50-8.53 8.50
		3.0	cm		Pentn.	R5	CR=18% RQD=Nil ↓
		100			>100	SPT-9	9.50-9.60 9.50
		10.0	cm		Pentn.	R6	CR=19% RQD=Nil ↓
					Refusal		
		100			>100	*SPT-10	10.50-10.52 10.50
		2.0	cm		Pentn.	R7	CR=16% RQD=Nil ↓
		100			>100	SPT-11	11.50-11.62 11.50
		12.0	cm		Pentn.	R8	CR=18% RQD=Nil ↓
		100			>100	SPT-12	12.50-12.58 12.50
		8.0	cm		Pentn.		↓
12.75m							



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 18/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH109

Co-ordinates E=-671
N=-2573

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	15	Undisturbed (UDS)	1	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 206.095 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.80 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Completely to highly weathered, reddish brown, fine to medium grained, fractured rock.	12.75m						R9	CR=22% RQD=Nil
							*SPT-13	13.50-13.53 13.50
							R10	CR=18% RQD=Nil
							SPT-14	14.50-14.62 14.50
							R11	CR=26%/RQD=0%
	15.10m					SPT-15	15.00-15.10 15.00	

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 18/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH110

Co-ordinates E=-1213
N=-2639

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	17	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	17	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	15	Level Of Ground : 212.314 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.30 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Brownish grey, clayey silt.	0.00m 0.30m								
Hard, reddish brown, clayey silt with moorum.	2.70m	10	14	21	35			*UDS-1 DS-1	0.50-0.95 0.95
								SPT-1	1.50-1.95
								DS-2	2.50
Very stiff, yellowish brown, silty clay with kankar.	4.55m	6	9	15	24			SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
Hard, yellowish brown, silty clay with kankar.	7.00m	10	14	19	33			SPT-3	4.55-5.00
								DS-3	5.50
		14	17	21	38			SPT-4	6.00-6.45
Hard, greenish grey, silty clay with decomposed rock fragments.	12.75m							DS-4	7.00
		13	16	20	36			SPT-5	7.50-7.95
								DS-5	8.50
		15	20	28	48			SPT-6	9.00-9.45
		17	24	35	59			DS-6	10.00
								SPT-7	10.50-10.95
								DS-7	11.50
		28	36	42	78			SPT-8	12.00-12.45

BORE LOG DATA SHEET

BORE HOLE NO. DBH110

Co-ordinates E=-1213
N=-2639

Field Test	Nos	Samples	Nos	Commencement Date :	06/11/2022
Penetrometer (SPT)	17	Undisturbed (UDS)	2	Completion Date :	07/11/2022
Cone (Pc)		Penetrometer (SPT)	17	Bore Hole Diameter :	150 mm.
Vane (V)		Disturbed (DS)	15	Level Of Ground :	212.314 m.
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	6.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
Hard, greenish grey, silty clay with decomposed rock fragments.	12.75m ↗							DS-8	13.00
		19	29	32	61		SPT-9	13.50-13.95	
Hard, yellowish brown to brownish grey, clayey silt with decomposed rock fragments.	14.50m							DS-9	14.50
		12	22	27	49		SPT-10	15.00-15.45	
								DS-10	16.00
		14	20	24	44		SPT-11	16.50-16.95	
								DS-11	17.50
		15	19	23	42		SPT-12	18.00-18.45	
								DS-12	19.00
		13	21	25	46		SPT-13	19.50-19.95	
								DS-13	20.50
		12	19	27	46		SPT-14	21.00-21.45	
						DS-14	22.00		
N.B. - '*' means sample could not be recovered.	25.00m	23	42	60	≥100		SPT-17	25.00-25.35	
					5.0 cm Pentn.				



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH111

Co-ordinates E=-1090
N=-2680

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	17	Undisturbed (UDS)	1	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	17	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	16	Level Of Ground : 213.311 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Reddish brown, silty clay with moorum.						19		DS-1	0.50
1.10m		6	7	12				SPT-1	1.00-1.45
								DS-2	2.00
								*UDS-1	2.50-2.58
						≥100		SPT-2	3.00-3.40
		19	32	70				10.0 cm Pentn.	
								DS-3	4.00
						75		SPT-3	4.50-4.95
		12	33	42				DS-4	5.50
						79		SPT-4	6.00-6.45
		17	31	48				DS-5	7.00
						73		SPT-5	7.50-7.95
		19	29	44				DS-6	8.50
						≥100		SPT-6	9.00-9.34
		24	51	50				4.0 cm Pentn.	
								DS-7	10.00
						58		SPT-7	10.50-10.95
		17	27	31				DS-8	11.50
						61		SPT-8	12.00-12.45
		18	27	34					
12.75m									



BH-111/Sheet-1

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH111

Co-ordinates E=-1090
N=-2680

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	17	Undisturbed (UDS)	1	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	17	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	16	Level Of Ground : 213.311 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
12.75m Hard, yellowish brown to brownish grey, clayey silt with decomposed rock fragments. N.B. - '*' means sample could not be recovered. 25.45m	↗					DS-9	13.00
		22	30	42	<u>72</u>	SPT-9	13.50-13.95
						DS-10	14.50
					<u>>100</u>	SPT-10	15.00-15.37
					7.0 cm Pentn.	DS-11	16.00
					<u>>100</u>	SPT-11	16.50-16.91
					11.0 cm Pentn.	DS-12	17.50
					<u>66</u>	SPT-12	18.00-18.45
						DS-13	19.00
					<u>48</u>	SPT-13	19.50-19.95
						DS-14	20.50
					<u>43</u>	SPT-14	21.00-21.45
						DS-15	22.00
					<u>42</u>	SPT-15	22.50-22.95
						DS-16	23.50
					<u>52</u>	SPT-16	24.00-24.45
					<u>48</u>	SPT-17	25.00-25.45



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH112

Co-ordinates E=-1040
N=-2723

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	1	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	13	Level Of Ground : 213.463 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Hard, reddish brown, clayey silt with moorum.		10	13	25	38			SPT-1	1.00-1.45
	2.20m							DS-2	2.00
Hard, yellowish brown to yellowish grey, clayey silt with decomposed rock fragments.		9	16	24	40			*UDS-1	2.50-2.64
								SPT-2	3.00-3.45
		12	14	20	34			DS-3	4.00
								SPT-3	4.50-4.95
		9	12	25	37			DS-4	5.50
								SPT-4	6.00-6.45
		10	19	25	44			DS-5	7.00
								SPT-5	7.50-7.95
	12	17	26	43			DS-6	8.50	
							SPT-6	9.00-9.45	
	19	23	37	60			DS-7	10.00	
							SPT-7	10.50-10.95	
	16	28	49	77			DS-8	11.50	
							SPT-8	12.00-12.45	
12.75m									



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH112

Co-ordinates E=-1040
N=-2723

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	1	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	13	Level Of Ground : 213.463 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.20 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Hard, yellowish brown to yellowish grey, clayey silt with decomposed rock fragments.	12.75m						DS-9	13.00
		14	27	35	62		SPT-9	13.50-13.95
							DS-10	14.50
		18	26	33	59		SPT-10	15.00-15.45
							DS-11	16.00
		12	19	35	54		SPT-11	16.50-16.95
							DS-12	17.50
		22	28	39	67		SPT-12	18.00-18.45
							DS-13	19.00
		20.00m	20	28	37	65		SPT-13

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 18/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH113

Co-ordinates E=-925
N=-2640

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	12	Level Of Ground : 210.468 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 12.20 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLES
		EACH DIVN. = 15cm							
0.00m									
Brownish grey, clayey silt.								UDS-1	0.50-0.95
1.20m									
Reddish brown, clayey silt with moorum.						23			
1.60m		8	10	13				SPT-1	1.50-1.95
Very stiff, yellowish brown, silty clay / clayey silt.								DS-1	2.50
3.00m						56			
		18	26	30				SPT-2	3.00-3.45
								*UDS-2	3.70-3.80
								DS-2	3.80
						>100			
		29	44	50				SPT-3	4.50-4.90
								DS-3	5.50
						>100			
		25	42	50				SPT-4	6.00-6.35
								DS-4	7.00
Hard, yellowish brown to yellowish grey, silty clay with decomposed rock fragments.						72			
		21	30	42				SPT-5	7.50-7.95
								DS-5	8.50
						78			
		20	35	43				SPT-6	9.00-9.45
								DS-6	10.00
						>100			
		47	55					SPT-7	10.50-10.80
								DS-7	11.50
						>100			
		43	60					SPT-8	12.00-12.30
12.75m									





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 18/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH113

Co-ordinates E=-925
N=-2640

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	12	Level Of Ground : 210.468 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 12.20 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Hard, yellowish brown to yellowish grey, silty clay with decomposed rock fragments.	12.75m						DS-8	13.00
					67		SPT-9	13.50-13.95
							DS-9	14.50
					75		SPT-10	15.00-15.45
							DS-10	16.00
					76		SPT-11	16.50-16.95
							DS-11	17.50
					79		SPT-12	18.00-18.45
							DS-12	19.00
					88		SPT-13	20.00-20.45
		20.45m						

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH114

Co-ordinates E=-646
N=-2639

Field Test	Nos	Samples	Nos	Commencement Date : 04/11/2022
Penetrometer (SPT)	23	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	23	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 207.657 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
Filled up with kankar.						*UDS-1	0.50-0.59
						DS-1	1.00
						SPT-1	1.50-1.58
1.80m						DS-2	2.00
Hard, yellowish brown, clayey silt, with light kankar.						*UDS-2	2.50-2.59
						SPT-2	3.00-3.45
						SPT-3	4.50-4.80
5.00m						*SPT-4	5.00-5.02 5.00
						R1	CR=20% RQD=Nil
						*SPT-5	6.00-6.03 6.00
						R2	CR=21% RQD=Nil
						SPT-6	7.00-7.08 7.00
						R3	CR=19% RQD=Nil
						*SPT-7	8.00-8.02 8.00
						R4	CR=20% RQD=Nil
Completely/highly weathered, reddish brown, fine to medium grained, rock.							9.00
						R5	CR=10% RQD=Nil
						SPT-8	10.00-10.09 10.00
						R6	CR=11% RQD=Nil
						SPT-9	11.00-11.08 11.00
						R7	CR=20% RQD=Nil
						*SPT-10	12.00-12.04 12.00
						R8	CR=18% RQD=Nil
12.75m							

BORE LOG DATA SHEET

BORE HOLE NO. DBH114

Co-ordinates E=-646
N=-2639

Field Test	Nos	Samples	Nos	Commencement Date : 04/11/2022
Penetrometer (SPT)	23	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	23	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 207.657 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.50 m.

DESCRIPTION	SYMBOL	N-VALUE		SAMPLES	
		EACH DIVN. = 15cm	Ref. No	Depth (m)	
Completely/highly weathered, reddish brown, fine to medium grained, rock.	12.75m	Refusal			
	100	5.0 cm Pentn.	*SPT-11	13.00-13.05	13.00
		>100	R9	CR=10% RQD=Nil	
	150	10.0 cm Pentn.	SPT-12	14.00-14.10	14.00
		>100	R10	CR=9% RQD=Nil	
	150	12.0 cm Pentn.	SPT-13	15.00-15.12	15.00
		Refusal	R11	CR=17% RQD=Nil	
	100	2.0 cm Pentn.	*SPT-14	16.00-16.02	16.00
		Refusal	R12	CR=18% RQD=Nil	
	100	3.0 cm Pentn.	*SPT-15	17.00-17.03	17.00
		>100	R13	CR=22% RQD=Nil	
	150	8.0 cm Pentn.	SPT-16	18.00-18.08	18.00
		>100	R14	CR=20% RQD=Nil	
	150	10.0 cm Pentn.	SPT-17	19.00-19.10	19.00
		>100	R15	CR=24% RQD=Nil	
	150	8.0 cm Pentn.	SPT-18	20.00-20.08	20.00
		Refusal	R16	CR=54% RQD=Nil	
	100	3.0 cm Pentn.	*SPT-19	21.00-21.03	21.00
		>100	R17	CR=21% RQD=Nil	
	150	8.0 cm Pentn.	SPT-20	22.00-22.08	22.00
	Refusal	R18	CR=20% RQD=Nil		
100	2.0 cm Pentn.	*SPT-21	23.00-23.02	23.00	
	>100	R19	CR=18% RQD=Nil		
24.00m	150	10.0 cm Pentn.	SPT-22	24.00-24.10	24.00
	>100	R20	CR=17% RQD=Nil		
25.17m	100	2.0 cm Pentn.	SPT-23	25.00-25.17	25.00

Completely weathered, yellowish brown, fine to medium grained, rock.

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 18/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH115

Co-ordinates E=-783
N=-2639

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	18	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	18	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.423 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.30 m.

DESCRIPTION	SYMBOL	N-VALUE				Ref. No	SAMPLES	
		EACH DIVN. = 15cm					Depth (m)	
0.00m								
Medium, brownish grey, clayey silt.						*UDS-1	0.50-0.59	
						DS-1	1.00	
		2 3 4			7	SPT-1	1.50-1.95	
						DS-2	2.50	
3.00m								
Hard, brownish grey, clayey silt.					>100	SPT-2	3.00-3.30	
		22 39 50			0.0 cm Pentn.	*UDS-2	3.50-3.58	
					Refusal	DS-3	4.00	
		100			3.0 cm Pentn.	*SPT-3	4.50-4.53	
6.00m								
Completely weathered, reddish grey, fine grained, fractured rock.					Refusal	DS-4	5.50	
		100			3.0 cm Pentn.	*SPT-4	6.00-6.03 6.00	
					Refusal	R1	CR=10% RQD=Nil	↓
		100			3.0 cm Pentn.	*SPT-5	7.00-7.03 7.00	
					Refusal	R2	CR=8% RQD=Nil	↓
		100			2.0 cm Pentn.	*SPT-6	8.00-8.02 8.00	
					Refusal	R3	CR=15% RQD=Nil	↓
		100			2.0 cm Pentn.	SPT-7	9.00-9.02 9.00	
					Refusal	R4	CR=12% RQD=Nil	↓
		100			3.0 cm Pentn.	*SPT-8	10.00-10.03 10.00	
				Refusal	R5	CR=10% RQD=Nil	↓	
	100			4.0 cm Pentn.	*SPT-9	11.00-11.04 11.00		
					R6	CR=7% RQD=Nil	↓	
12.00m								
12.75m					>100	SPT-10	12.00-12.25 12.00	
		48 65			10.0 cm Pentn.	R7	CR=Nil RQD=Nil	↓

BORE LOG DATA SHEET

BORE HOLE NO. DBH115

Co-ordinates E=-783
N=-2639

Field Test	Nos	Samples	Nos	Commencement Date : 06/11/2022
Penetrometer (SPT)	18	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	18	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.423 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
Intermediate geomaterial consists of completely weathered, reddish grey, fine grained, decomposed & disintegrated rock.	↖	12.75m				44	SPT-11 R8	13.00-13.45 CR=Nil RQD=Nil	13.00
			15	18	26				14.00
Completely weathered, reddish grey, fine grained, fractured rock.	→	15.00m				48	SPT-12 R9	14.00-14.45 CR=Nil RQD=Nil	14.00
				13	21	27			
		15.00m				>100	SPT-13 R10	15.00-15.25 CR=16% RQD=Nil	15.00
				50	50				
		15.00m				Refusal	*SPT-14 R11	16.00-16.03 CR=17% RQD=Nil	16.00
				100					
		15.00m				Refusal	*SPT-15 R12	17.00-17.05 CR=15% RQD=Nil	17.00
				100					
		15.00m				>100	SPT-16 R13	18.00-18.14 CR=11% RQD=Nil	18.00
				100					
		15.00m				>100	SPT-17 R14	19.00-19.27 CR=7% RQD=Nil	19.00
				49	51				
		20.00m				Refusal	*SPT-18	20.00-20.05	20.00
		20.00m				100			
		20.00m				5.0 cm Pentn.			

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH116

Co-ordinates E=-1110
N=-2641

Field Test	Nos	Samples	Nos	Commencement Date : 10/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	10	Level Of Ground : 216.150 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Hard, reddish brown, clayey silt with moorum.								DS-1	0.50
		9	12	20	<u>32</u>			SPT-1	1.00-1.45
								DS-2	2.00
2.60m									
Hard, reddish brown, silty clay with decomposed rock particles.								*UDS-1	2.60-3.05
		11	15	26	<u>41</u>			SPT-2	3.05-3.50
		10	14	29	<u>43</u>			DS-3	4.00
								SPT-3	4.50-4.95
5.20m									
Hard, yellowish brown, clayey silt with decomposed rock fragments.								DS-4	5.50
		13	22	33	<u>55</u>			SPT-4	6.00-6.45
								DS-5	7.00
								SPT-5	7.50-7.95
								DS-6	8.50
		12	21	35	<u>56</u>			SPT-6	9.00-9.45
								DS-7	10.00
		13	24	35	<u>59</u>			SPT-7	10.50-10.95
								DS-8	11.50
		15	29	33	<u>62</u>			SPT-8	12.00-12.45
12.75m									



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH116

Co-ordinates E=-1110
N=-2641

Field Test	Nos	Samples	Nos	Commencement Date : 10/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	10	Level Of Ground : 216.150 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Hard, yellowish brown, clayey silt with decomposed rock fragments.	12.75m							DS-9	13.00
		19	35	42	77			SPT-9	13.50-13.95
								DS-10	14.50
	15.00m	20	33	100	≥100			SPT-10	15.00-15.35
					5.0 cm	Pentn.			

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH119

Co-ordinates E=-831
N=-1921

Field Test	Nos	Samples	Nos	Commencement Date : 21/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 23/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 204.965 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	Depth (m)
		EACH DIVN. = 15cm							
0.00m									
Very stiff, reddish brown, clayey silt.								UDS-1	0.50-0.80
								DS-1	1.50
								SPT-1	2.00-2.45
								DS-2	2.50
2.80m									
Hard, reddish brown, clayey silt.								UDS-2	3.00-3.35
								SPT-2	3.50-3.95
								DS-3	4.00
4.50m									
Highly to moderately weathered, light to deep grey, fine to medium grained, fractured rock.								*SPT-3	4.50-4.54
								R1	4.50 CR=26%/RQD=0%
									5.00
								R2	CR=27% RQD=Nil
									6.00
								R3	CR=31% RQD=Nil
									7.00
								R4	CR=49% RQD=Nil
									8.00
							R5	CR=35% RQD=10%	
								9.00	
							R6	CR=55% RQD=45%	
								10.00	
							R7	CR=45% RQD=Nil	
								11.00	
							R8	CR=58% RQD=Nil	
								12.00	
							R9	CR=55% RQD=10%	
								12.75m	

Refusal
NX rotary drilling from 4.50m to 20.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 10/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH119

Co-ordinates E=-831
N=-1921

Field Test	Nos	Samples	Nos	Commencement Date : 21/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 23/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 204.965 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Moderately to slightly weathered, light to deep grey, fine to medium grained, fractured rock.	↘							R10	13.00 CR=65% RQD=Nil
14.00m Highly to moderately weathered, light to deep grey, fine to medium grained, fractured rock.								R11	14.00 CR=26% RQD=Nil
								R12	15.00 CR=37% RQD=Nil
								R13	16.00 CR=48% RQD=Nil
								R14	17.00 CR=47% RQD=Nil
18.00m Moderately to slightly weathered, light to deep grey, fine to medium grained, fractured rock.								R15	18.00 CR=53% RQD=Nil
20.00m								R16	19.00 CR=65% RQD=Nil
									20.00

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 10/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH120

Co-ordinates E=-766
N=-1834

Field Test	Nos	Samples	Nos	Commencement Date : 23/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	4	Completion Date : 25/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 205.085 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	SAMPLES	
		EACH DIVN. = 15cm							Depth (m)	
0.00m										
Reddish brown, clayey silt / silty clay.								UDS-1	0.50-0.75	
								DS-1	1.00	
1.40m										
Very Stiff to hard, reddish brown, clayey silt / silty clay.		7	9	12				SPT-1	1.50-1.95	
								*UDS-2	2.00-2.09	
								DS-2	2.09	
		10	15	17				SPT-2	2.50-2.95	
								DS-3	3.00	
3.80m								UDS-3	3.50-3.80	
Hard, reddish brown, clayey silt / silty clay.		15	20	23				SPT-3	4.50-4.95	
								*UDS-4	5.00-5.08	
								DS-5	5.08	
5.50m		100						*SPT-4	5.50-5.53	5.50
Highly weathered, light to deep grey, fine to medium grained, fractured rock.								R1	CR=28%/RQD=0%	6.00
								R2	CR=23% RQD=Nil	7.00
								R3	CR=48% RQD=46%	8.00
								R4	CR=23% RQD=Nil	9.00
								R5	CR=30% RQD=Nil	10.00
								R6	CR=25% RQD=Nil	11.00
								R7	CR=33% RQD=Nil	12.00
								R8	CR=43% RQD=Nil	
12.75m										

Refusal
NX rotary drilling from 5.50m to 15.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 10/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH120

Co-ordinates E=-766
N=-1834

Field Test	Nos	Samples	Nos	Commencement Date : 23/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	4	Completion Date : 25/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 205.085 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Highly to moderately weathered, light to deep grey, fine to medium grained, fractured rock.	↘							R9	13.00 ↓ CR=50% RQD=Nil
14.00m Moderately weathered, deep grey, fine to medium grained, fractured rock.								R10	14.00 ↓ CR=52% RQD=Nil
15.00m									15.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH121

Co-ordinates E=-720
N=-1776

Field Test	Nos	Samples	Nos	Commencement Date : 25/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 26/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.256 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.80
Very stiff, reddish brown, clayey silt / silty clay.								DS-1	1.50
		5	6	11	17			SPT-1	2.00-2.45
								DS-2	3.00
								UDS-2	3.50-3.95
5.00m								DS-3	4.50
Hard, reddish brown, silty clay / clayey silt.		12	17	22	39			SPT-2	5.00-5.45
								DS-4	6.00
		13	19	24	43			*UDS-3 SPT-3	6.50-6.60 6.60-7.05
7.50m		100					SPT-4	7.50-7.54 7.50	
Highly weathered, light to deep grey, fine to medium grained, fractured rock.								R1	CR=34%/RQD=0% ↓ 8.00
								R2	CR=25% RQD=Nil ↓ 9.00
								R3	CR=23% RQD=Nil ↓ 10.00
								R4	CR=23% RQD=Nil ↓ 11.00
								R5	CR=28% RQD=Nil ↓ 12.00
								R6	CR=44% RQD=39% ↓
11.00m									
Highly to moderately weathered, light to deep grey, fine to medium grained, fractured rock.									
	12.75m								

NX rotary drilling from 7.50m to 15.00m

Refusal

4.0 cm Pentn.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 10/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH121

Co-ordinates E=-720
N=-1776

Field Test	Nos	Samples	Nos	Commencement Date : 25/10/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 26/10/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.256 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly to moderately weathered, light to deep grey, fine to medium grained, fractured rock.		12.75m						R7	13.00
									CR=24% RQD=Nil
		15.00m						R8	14.00
									CR=38% RQD=Nil
									15.00

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 10/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH122

Co-ordinates E=-670
N=-1714

Field Test	Nos	Samples	Nos	Commencement Date : 27/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	3	Completion Date : 28/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 205.070 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.30 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.75
Reddish brown, clayey silt / silty clay with moorum.								DS-1	1.50
1.80m		7	9	12	21			SPT-1	2.00-2.45
Very stiff, reddish brown, clayey silt / silty clay.								DS-2	3.00
								UDS-2	3.50-3.80
								DS-3	4.50
5.00m		9	13	18	31			SPT-2	5.00-5.45
Hard, reddish brown, clayey silt / silty clay.								DS-4	6.00
								*UDS-3	6.50-6.58
		8	14	23	37			SPT-3	7.00-7.45
8.00m		20	100	>100				DS-5	7.80
Completely/highly weathered, yellowish grey to light grey, fine to medium grained, fractured rock.								SPT-4	8.00-8.20
								R1	CR=25% RQD=Nil
								R2	CR=25% RQD=Nil
								R3	CR=20% RQD=Nil
								R4	CR=20% RQD=Nil
12.00m		20	27	38	65			SPT-5	12.00-12.45
Intermediate geometerial consists of 12.00m completely weathered, reddish brown, fine to medium grained, decomposed rock.								R5	CR=Nil RQD=Nil
12.75m									

NX rotary drilling from 8.00m to 15.00m

5.0 cm Pentn.



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 10/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH122

Co-ordinates E=-670
N=-1714

Field Test	Nos	Samples	Nos	Commencement Date : 27/10/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	3	Completion Date : 28/10/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 205.070 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
12.75m Intermediate geometerial consists of completely weathered, reddish brown, fine to medium grained, decomposed rock.	↖	24	90	15.0	cm Pentn.	≥100	SPT-6 R6	13.00-13.30 CR=Nil RQD=Nil 13.00
14.00m Completely weathered, reddish brown, fractured rock.	↖	100		10.0	cm Pentn.	≥100	SPT-7 R7	14.00-14.10 CR=18% RQD=Nil 14.00
15.00m	↖	100			Refusal		*SPT-8	15.00-15.04 15.00
				4.0	cm Pentn.			

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH123

Co-ordinates E=-640
N=-2171

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	15	Undisturbed (UDS)	1	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 204.832 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.80 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES		
		EACH DIVN. = 15cm				Ref. No	Depth (m)	
0.00m								
Hard, yellowish grey to grey, clayey silt with decomposed rock.						UDS-1	0.50-0.85	
						DS-1	1.00	
		100						
			8.0	cm	Pentn.	SPT-1	1.50-1.58	1.50
						R1	CR=18%/RQD=0%	↓
		100				*SPT-2	2.00-2.05	2.00
			5.0	cm	Pentn.	R2	CR=12%	↓
							RQD=Nil	↓
		100				SPT-3	3.00-3.08	3.00
			8.0	cm	Pentn.	R3	CR=11%	↓
							RQD=Nil	↓
		100				SPT-4	4.00-4.15	4.00
Completely weathered, yellowish grey to grey, fine grained, fractured rock.						R4	CR=17%	↓
							RQD=Nil	↓
		100				SPT-5	5.00-5.06	5.00
			6.0	cm	Pentn.	R5	CR=15%	↓
							RQD=Nil	↓
		100				*SPT-6	6.00-6.03	6.00
			3.0	cm	Pentn.	R6	CR=13%	↓
							RQD=Nil	↓
		100				SPT-7	7.00-7.10	7.00
			10.0	cm	Pentn.	R7	CR=10%	↓
							RQD=Nil	↓
		100				SPT-8	8.00-8.15	8.00
						R8	CR=14%	↓
						RQD=Nil	↓	
	100				SPT-9	9.00-9.11	9.00	
		11.0	cm	Pentn.	R9	CR=10%	↓	
						RQD=Nil	↓	
	3965				SPT-10	10.00-10.27	10.00	
		12.0	cm	Pentn.	R10	CR=7%	↓	
						RQD=Nil	↓	
	224050				SPT-11	11.00-11.36	11.00	
		6.0	cm	Pentn.	R11	CR=12%	↓	
						RQD=Nil	↓	
	2048100				SPT-12	12.00-12.40	12.00	
		10.0	cm	Pentn.	R12	CR=11%	↓	
						RQD=Nil	↓	
11.00m								
Completely weathered, yellowish brown to grey, fine grained, rock.								
	12.75m							

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 17/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH123

Co-ordinates E=-640
N=-2171

Field Test	Nos	Samples	Nos	Commencement Date : 03/11/2022
Penetrometer (SPT)	15	Undisturbed (UDS)	1	Completion Date : 04/11/2022
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	15	Level Of Ground : 204.832 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.80 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
Completely weathered, yellowish brown to grey, fine grained, rock.	12.75m	39	100	>100		SPT-13	13.00-13.27
			12.0	cm Pentn.		R13	CR=9% RQD=Nil
		23	38	100	>100	SPT-14	14.00-14.37
			7.0	cm Pentn.		R14	CR=9% RQD=Nil
	15.00m	31	100	>100		SPT-15	15.00-15.21
			6.0	cm Pentn.			

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH124

Co-ordinates E=-538
N=-2054

Field Test	Nos	Samples	Nos	Commencement Date : 30/10/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 31/10/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 204.961 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.70 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Light to deep grey, clayey silt / silty clay.						UDS-1	0.50-0.75	
						DS-1	1.50	
1.80m		19	27	42	69	SPT-1	2.00-2.45	
Hard, light to deep grey, clayey silt / silty clay.						DS-2	3.00	
						*UDS-2	3.50-3.58	
		23	98		>100	SPT-2	4.00-4.30	
4.50m		100			15 cm Pentn.	*SPT-3	4.50-4.52	4.50
					Refusa.	R1	CR=26%/RQD=0%	5.00
					2.0 cm Pentn.			↓
						R2	CR=21% RQD=Nil	↓
					NX rotary drilling from 4.50m to 15.00m			6.00
						R3	CR=20% RQD=Nil	↓
								7.00
						R4	CR=13% RQD=Nil	↓
		100			Refusa.	*SPT-4	8.00-8.02	8.00
Completely/highly weathered, light to deep grey, fine to medium grained, fractured rock.					2.0 cm Pentn.	R5	CR=20% RQD=Nil	↓
								9.00
						R6	CR=21% RQD=Nil	↓
		100			Refusa.	*SPT-5	10.00-10.03	10.00
					3.0 cm Pentn.	R7	CR=21% RQD=Nil	↓
								11.00
						R8	CR=18% RQD=Nil	↓
		100			Refusa.	*SPT-6	12.00-12.02	12.00
Highly to moderately weathered, light to deep grey, fine to medium grained, fractured rock.					2.0 cm Pentn.	R9	CR=28% RQD=Nil	↓
12.00m								12.00
12.75m								↓



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 10/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH124

Co-ordinates E=-538
N=-2054

Field Test	Nos	Samples	Nos	Commencement Date : 30/10/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 31/10/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 204.961 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.70 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES		
		EACH DIVN. = 15cm				Ref. No	Depth (m)	
Highly to moderately weathered, light to deep grey, fine to medium grained, fractured rock.	12.75m	100	Refusal				*SPT-7	13.00-13.04
			4.0 cm Penth.				R10	CR=45% RQD=Nil
							R11	CR=26% RQD=Nil
	15.00m						14.00	
							15.00	

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH125

Co-ordinates E=-472
N=-1964

Field Test	Nos	Samples	Nos	Commencement Date : 29/10/2022
Penetrometer (SPT)	11	Undisturbed (UDS)	3	Completion Date : 30/10/2022
Cone (Pc)		Penetrometer (SPT)	11	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 205.485 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m Yellowish brown, clayey silt / silty clay.								UDS-1	0.50-0.75
1.80m								DS-1	1.50
1.80m Hard, yellowish brown, clayey silt / silty clay.		25	20	28	48			SPT-1	2.00-2.45
								DS-2	3.00
		18	22	20	42			*UDS-2	3.50-3.58
		14	16	22	38			SPT-2	4.00-4.45
6.80m Completely/highly weathered, light to deep grey, fine to medium grained, fractured rock.					Refusal			SPT-3	5.00-5.45
								DS-3	6.00
		100						*UDS-3	6.50-6.53
			5.0 cm Pentn.					*SPT-4	6.80-6.85 6.80
10.50m Completely weathered, light to deep grey, fine to medium grained, fractured rock.					NX rotary drilling from 6.80m to 20.00m			R1	CR=25% RQD=Nil 7.50
								R2	CR=23% RQD=Nil ↓
		100			>100			SPT-5	8.50-8.59 8.50
			9.0 cm Pentn.					R3	CR=10% RQD=Nil ↓
12.75m					Refusal			R4	CR=9% RQD=Nil ↓
								*SPT-6	10.50-10.56 10.50
		100						R5	CR=12% RQD=Nil ↓
			6.0 cm Pentn.					R6	CR=14% RQD=Nil ↓
					Refusal			*SPT-7	12.50-12.57 12.50
		100							↓
		7.0 cm Pentn.							↓

BORE LOG DATA SHEET

BORE HOLE NO. DBH125

Co-ordinates E=-472
N=-1964

Field Test	Nos	Samples	Nos	Commencement Date : 29/10/2022
Penetrometer (SPT)	11	Undisturbed (UDS)	3	Completion Date : 30/10/2022
Cone (Pc)		Penetrometer (SPT)	11	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 205.485 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
Completely weathered, light to deep grey, fine to medium grained, fractured rock with clay.	12.75m					R7	CR=7% RQD=Nil
						R8	CR=18% RQD=Nil
		100			>100	SPT-8	14.50-14.58
		8.0	cm	Pentn.		R9	CR=13% RQD=Nil
						R10	CR=20% RQD=Nil
		100			Refusa.	SPT-9	16.50-16.57
		7.0	cm	Pentn.		R11	CR=16% RQD=Nil
						R12	CR=10% RQD=Nil
		100			Refusa.	SPT-10	18.50-18.55
		5.0	cm	Pentn.		R13	CR=16% RQD=Nil
						R14	CR=15% RQD=Nil
		100			>100	SPT-11	20.00-20.08
		8.0	cm	Pentn.			

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH126

Co-ordinates E=-377
N=-1948

Field Test	Nos	Samples	Nos	Commencement Date : 07/11/2022
Penetrometer (SPT)	15	Undisturbed (UDS)	0	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 203.242 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.10 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES		
		EACH DIVN. = 15cm			Ref. No	Depth (m)	
Brownish grey, clayey silt with rock fragments.	0.00m						
	0.50m	100	Refusal		DS-1	0.50	
		3.0 cm Pentn.			*SPT-1	0.50-0.530.50	
		100	Refusal		R1	CR=30%/RQD=0% ↓	
		2.0 cm Pentn.			*SPT-2	1.00-1.02 1.00	
		100	Refusal		R2	CR=29% RQD=Nil ↓	
Highly weathered, light to brownish grey, fine grained, fractured rock.		2.0 cm Pentn.			*SPT-3	2.00-2.02 2.00	
		100	Refusal		R3	CR=27% RQD=Nil ↓	
		9.0 cm Pentn.			SPT-4	3.00-3.09 3.00	
		100	>100		R4	CR=27% RQD=Nil ↓	
	4.00m	12.0 cm Pentn.			SPT-5	4.00-4.12 4.00	
		100	>100		R5	CR=25% RQD=Nil ↓	
		10.0 cm Pentn.			SPT-6	5.00-5.10 5.00	
		100	Refusal		R6	CR=22% RQD=Nil ↓	
Highly weathered, light to brownish grey, fine grained, fractured rock.		3.0 cm Pentn.			*SPT-7	6.00-6.03 6.00	
		100	Refusal		R7	CR=20% RQD=Nil ↓	
		2.0 cm Pentn.			*SPT-8	7.00-7.02 7.00	
		100	Refusal		R8	CR=23% RQD=Nil ↓	
		NX rotary drilling from 0.50m to 15.00m					8.00
		8.0 cm Pentn.			R9	CR=26% RQD=Nil ↓	
		100	>100		SPT-9	9.00-9.08 9.00	
		100	Refusal		R10	CR=23% RQD=Nil ↓	
	10.00m	3.0 cm Pentn.			*SPT-10	10.00-10.03 10.00	
		100	Refusal		R11	CR=29% RQD=Nil ↓	
Highly weathered, light to brownish grey, fine grained, fractured rock.		7.0 cm Pentn.			SPT-11	11.00-11.07 11.00	
		100	Refusal		R12	CR=28% RQD=Nil ↓	
		3.0 cm Pentn.			*SPT-12	12.00-12.03 12.00	
	12.75m	100	Refusal		R13	CR=26% RQD=Nil ↓	

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH126

Co-ordinates E=-377
N=-1948

Field Test	Nos	Samples	Nos	Commencement Date : 07/11/2022
Penetrometer (SPT)	15	Undisturbed (UDS)	0	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 203.242 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.10 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES		
		EACH DIVN. = 15cm				Ref. No	Depth (m)	
Highly weathered, light to brownish grey, fine grained, fractured rock.	12.75m	100	2.0	cm	Refusal	*SPT-13	13.00-13.02	13.00
					Pentn.	SPT-11	13.00-13.45	
					>100	R14		CR=35% RQD=Nil
						SPT-14	14.00-14.10	14.00
		100	10.0	cm	Pentn.	R15		CR=38% RQD=Nil
	15.00m	100	3.0	cm	Refusal	*SPT-15	15.00-15.03	15.00
					Pentn.			

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO.DBH127

Co-ordinates E=-435
N=-2034

Field Test	Nos	Samples	Nos	Commencement Date : 07/11/2022
Penetrometer (SPT)	14	Undisturbed (UDS)	1	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	14	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 205.667 M..
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 7.90 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
0.00m							
Reddish brown, clayey silt / silty clay.						*UDS-1	0.50-0.55
						DS-1	1.00
1.40m				64			
Hard, reddish brown, clayey silt / silty clay.		15	29	35		SPT-1	1.50-1.95
						DS-2	2.50
4.50m		8	14	28		SPT-2	3.00-3.45
						DS-3	4.00
Completely / highly weathered, reddish brown, fine to medium grained, fractured rock.		100				SPT-3	4.50-4.53 4.50
			3.0	cm	Pentn.	R1	CR=30% RQD=NIL
		100				SPT-4	5.50-5.58 5.50
			8.0	cm	Pentn.	R2	CR=26% RQD=NIL
		100				*SPT-5	6.50-6.55 6.50
			5.0	cm	Pentn.	R3	CR=25% RQD=NIL
		100				SPT-6	7.50-7.60 7.50
			10.0	cm	Pentn.	R4	CR=30% RQD=NIL
		100				SPT-7	8.50-8.59 8.50
			9.0	cm	Pentn.	R5	CR=32% RQD=NIL
		100				*SPT-8	9.50-9.53 9.50
			3.0	cm	Pentn.	R6	CR=18% RQD=NIL
		20	85			SPT-9	10.50-10.80 10.50
			15.0	cm	Pentn.	R7	CR=26% RQD=NIL
		100				*SPT-10	11.50-11.53 11.50
			3.0	cm	Pentn.	R8	CR=22% RQD=NIL
12.75m		100				SPT-11	12.50-12.60 12.50
			10.0	cm	Pentn.		

BORE LOG DATA SHEET | **BORE HOLE NO.DBH127** Co-ordinates E=-435 N=-2034

Field Test	Nos	Samples	Nos	Commencement Date : 07/11/2022
Penetrometer (SPT)	14	Undisturbed (UDS)	1	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	14	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 205.667 M.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 7.90 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Completely / highly weathered, reddish brown, fine to medium grained, fractured rock.	12.75m						R9	CR=24% RQD=NIL
		100					*SPT-12	13.50-13.52 13.50
		2.0	cm	Pentn.			R10	CR=24% RQD=NIL
							SPT-13	14.50-14.58 14.50
15.00m	15.00m	100					R11	CR=70% RQD=NIL
		8.0	cm	Pentn.			SPT-14	15.00-15.20 15.00
		43	50					
		5.0	cm	Pentn.				

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH128

Co-ordinates E=-371
N=-2106

Field Test	Nos	Samples	Nos	Commencement Date : 10/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 202.989 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.00 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm.					Ref. No	Depth (m)	
0.00m									
Hard, reddish brown, silty clay with decomposed rock.							UDS-1	0.50-0.95	
							DS-1	1.50	
			11	19	24	43		SPT-1	2.00-2.45
								DS-2	3.00
								*UDS-2	3.50-3.60
			14	20	33	53		SPT-2	4.00-4.45
								DS-3	5.00
			13	22	29	51		SPT-3	5.50-5.95
								DS-4	6.50
			19	28	50	≥100		SPT-4	7.00-7.41
8.00m									
Highly weathered, reddish brown, medium to coarse grained, fractured & decomposed rock.		100			≥100		SPT-5	8.00-8.24 8.00	
		9.0	cm	Pentn.			R1	CR=34% RQD=NIL	
		100			≥100		SPT-6	9.00-9.13 9.00	
		13.0	cm	Pentn.			R2	CR=30% RQD=NIL	
10.00m		100			≥100		SPT-7	10.00-10.10 10.00	
		9.0	cm	Pentn.					

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET **BORE HOLE NO.DBH129**

Co-ordinates E=-295
N=-2184

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	2	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	9	Level Of Ground : 203.091 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	Depth (m)
		EACH DIVN. = 15cm.							
Filled up soil consists of brick bats & stone chips.									
Hard, reddish brown, silty clay. Obs. traces of steel grey patches.								*UDS-1	0.60-0.68
								DS-1	0.80
		111419						SPT-1	1.00-1.45
								DS-2	2.00
		131827						SPT-2	2.50-2.95
								DS-3	3.50
		141823						*UDS-2	4.00-4.30
								SPT-3	4.50-4.95
Very stiff to hard, yellowish brown clayey silt / silty clay. Obs. steel grey patches.								DS-4	5.50
		182328						SPT-4	6.00-6.45
								DS-5	7.00
		101321						SPT-5	7.50-7.95
								DS-6	8.50
		8 1115						SPT-6	9.00-9.45
								DS-7	10.00
		131829						SPT-7	10.50-10.95
							DS-8	11.50	
	162229						SPT-8	12.00-12.45	

12.75m



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

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Created by : Sumona

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Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH129

Co-ordinates E=-295
N=-2184

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	2	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	9	Level Of Ground : 203.091 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Very stiff to hard, yellowish brown clayey silt / silty clay. Obs. steel grey patches.	↖	12.75m	>100			DS-9	13.00
		13.50m	36	100	5.0 cm Pentn. refusal	SPT-9	13.20-13.40
Completely weathered, reddish brown, fine grained highly fractured rock.		13.50m	100	3.0 cm Pentn. refusal		*SPT-10	13.50-13.53 13.50
		15.00m	100	2.0 cm Pentn. refusal		R1	CR=15% RQD=NIL
			100	1.0 cm Pentn.		*SPT-11	14.50-14.52 14.50
			100	1.0 cm Pentn.		R2	CR=16% RQD=NIL
					*SPT-12	15.00-15.01 15.00	

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.



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Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH130

Co-ordinates E=-291
N=-2242

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	0	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	9	Level Of Ground : 203.154 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of stone chips & brick bats.							DS-1	0.50
0.80m		12	18	26	44		SPT-1	1.00-1.45
Very stiff to hard, reddish brown to pinkish brown, silty clay. Obs. steel grey patches.							DS-2	2.00
		14	23	30	53		SPT-2	2.50-2.95
		13	27	38	65		SPT-3	4.00-4.45
		8	13	16	29		SPT-4	5.50-5.95
6.50m							DS-5	6.50
Hard, deep reddish brown, clayey silt / silty clay with decomposed rock fragments. Obs. steel grey patches.		24	37	50	>100		SPT-5	7.00-7.40
					10.0 cm Pentn.		DS-6	8.00
		41	100		>100		SPT-6	8.50-8.68
					3.0 cm Pentn.		DS-7	9.00
		37	100		>100		SPT-7	9.50-9.70
				5.0 cm Pentn.		DS-8	10.50	
		43	100		>100		SPT-8	11.00-11.28
					13.0 cm Pentn.		DS-9	12.00
12.75m		40	100		>100		SPT-9	12.50-12.75
					10.0 cm Pentn.			



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

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BORE LOG DATA SHEET | BORE HOLE NO.DBH130

Co-ordinates E=-291
N=-2242

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	0	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	9	Level Of Ground : 203.154 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.30 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Hard, deep reddish brown, clayey silt / silty clay with decomposed rock fragments. Obs. steel grey patches.	12.75m 13.00m	100	refusal			*SPT-10	13.00-13.02 13.00
		2.0 cm	Penth.				
Completely weathered, reddish brown fine grain highly fractured rock.	15.00m	100	refusal			*SPT-11	14.00-14.02 14.00
		2.0 cm	Penth.				
		100	refusal			*SPT-12	15.00-15.03 15.00
		3.0 cm	Penth.				

N.B. - '*' means sample could not be recovered.





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BORE LOG DATA SHEET | BORE HOLE NO.DBH131

Co-ordinates E=-388
N=-2311

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	11	Level Of Ground : 202.525 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not found

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Filled up soil consist of boulder & brick bats.								DS-1	0.50
0.70m								*UDS-1 DS-2	0.80-0.88 1.00
Hard, reddish brown silty clay with kankars & decomposed rock.		12	19	23	42			SPT-1	1.50-1.95
		17	20	27	47			DS-3	2.50
		32	100	>100				DS-4	4.00
			10.0 cm Pentn.				SPT-3	4.50-4.75	
5.00m								DS-5	5.50
Hard, reddish brown to yellowish brown, clayey silt with kankars. Obs. traces of steel grey patches.		12	16	18	34			SPT-4	6.00-6.45
		9	17	22	39			DS-6	7.00
		10	12	22	34			SPT-5	7.50-7.95
		10	12	22	34			DS-7	8.50
		7	17	26	43			SPT-6	9.00-9.45
		7	17	26	43			DS-8	10.00
		8	11	19	30			SPT-7	10.50-10.95
		8	11	19	30			DS-9	11.50
12.75m		8	11	19	30			SPT-8	12.00-12.45





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Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH131

Co-ordinates E=-388
N=-2311

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 08/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	11	Level Of Ground : 202.525 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm.						Ref. No	Depth (m)	
12.75m Hard, reddish brown to yellowish brown, clayey silt with kankars.Obs. traces of steel grey patches.								DS-10	13.00	
		12	15	22			37	SPT-9	13.50-13.95	
									DS-11	14.50
		15.00m	14	17	19			36	SPT-10	15.00-15.45

N.B. - '*' means sample could not be recovered.





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Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH132

Co-ordinates E = -90
N = -2318

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	2	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 202.110 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Reddish brown silty clay.								UDS-1	0.50-0.95
								DS-1	1.50
2.00m Hard yellowish brown, silty clay / clayey silt. Obs. steel grey patches & decomposed rock fragments.		12	15	18	33			SPT-1	2.00-2.45
								DS-2	3.00
								*UDS-2	3.50-3.95
		11	21	28	49			SPT-2	4.20-4.65
								DS-3	5.00
		28	46	100	>100			SPT-3	5.50-5.85
								DS-4	6.50
		19	31	46	77			SPT-4	7.00-7.45
								DS-5	8.00
		36	100		>100			SPT-5	8.50-8.70
9.00m Completely weathered yellowish brown to reddish brown, fine grained highly fractured rock.		100			refusal			*SPT-6	9.00-9.03 9.00
								R1	CR=15% RQD=NIL
		100			refusal			*SPT-7	10.00-10.03 10.00
								R2	CR=16% RQD=NIL
		100			refusal			SPT-8	11.00-11.03 11.00
								R3	CR=13% RQD=NIL
100			refusal			*SPT-9	12.00-12.04 12.00		
						R4	CR=16% RQD=NIL		
12.75m									



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

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Created by : Sumona

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Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH132

Co-ordinates E = -90
N = -2318

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	2	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 202.110 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Completely weathered yellowish brown to reddish brown, fine grained highly fractured rock.	12.75m	100	refusal			*SPT-10	13.00-13.01 13.00
		1.0 cm	Pentn.			R5	CR=19% RQD=NIL
		100	refusal			*SPT-11	14.00-14.01 14.00
		1.0 cm	Pentn.			R6	CR=NIL RQD=NIL
	15.00m	100	>100			SPT-12	15.00-15.08 15.00
		8.0 cm	Pentn.				

N.B. - '*' means sample could not be recovered.





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Job No : 4607

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Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH133

Co-ordinates E=-630
N=-1322

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 203.489 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 11.00 m.

DESCRIPTION	SYMBOL	N-VALUE						Ref. No	Depth (m)
		EACH DIVN. = 15cm.							
0.00m								*UDS-1	0.50-0.58
Filled up soil consists of yellowish brown, clayey silt & silty sand with kankar & concrete.		2	1	2	3			SPT-1	1.00-1.45
		3	2	4	6			SPT-2	2.50-2.95
3.50m								DS-1	3.50
Very stiff, reddish brown, clayey silt / silty clay		7	7	11	18			SPT-3	4.00-4.45
		11	13	18	31			SPT-4	5.50-5.95
5.50m								DS-2	6.50
Hard, reddish brown, clayey silt / silty clay		12	17	24	41			SPT-5	7.00-7.45
		100	refusal					SPT-6	8.00-8.02 8.00
8.00m		2.0 cm Pentn.						R1	CR=33% RQD=NIL
								R2	CR=41% RQD=NIL
								R3	CR=42% RQD=NIL
								R4	CR=42% RQD=NIL
								R5	CR=60% RQD=NIL
12.75m									



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

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BORE LOG DATA SHEET | BORE HOLE NO.DBH133

Co-ordinates E=-630
N=-1322

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 203.489 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 11.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Highly to moderately, greyish black fine to medium grained fractured rock.	12.75m							R6	13.00 CR=45% RQD=NIL
	15.00m							R7	14.00 CR=58% RQD=NIL 15.00

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

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Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH134

Co-ordinates E=-667
N=-1450

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 203.355 M
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.20 m.

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	SAMPLES
		EACH DIVN. = 15cm.						
0.00m								
Very stiff , reddish brown to yellowish brown, clayey silt / silty clay.							*UDS-1	0.50-0.57
		7	10	12		22	SPT-1	1.00-1.45
							DS-1	2.00
							*UDS-2	2.50-2.58
4.50m								
		12	13	15		28	SPT-2	3.00-3.45
							DS-2	4.00
							*UDS-3	4.50-4.95
7.50m								
		15	20	29		49	SPT-3	4.50-4.95
							DS-3	5.50
							*SPT-4	6.00-6.45
12.75m								
		24	32	22		54	SPT-4	6.00-6.45
						refusal		
		100					*SPT-5	7.50-7.54 7.50
		4.0	cm	Pentn.			R1	CR=09% RQD=NIL
completely to highly weathered, fine to medium grained, reddish brown to yellowish brown, fractured rock.								
						>100	SPT-6	8.50-8.58 8.50
		100					R2	CR=10% RQD=NIL
		8.0	cm	Pentn.			SPT-7	9.50-9.56 9.50
						refusal	R3	CR=10% RQD=NIL
	100					*SPT-8	10.50-10.53 10.50	
	6.0	cm	Pentn.			R4	CR=22% RQD=NIL	
	100					R5	CR=21% RQD=NIL	
	3.0	cm	Pentn.					
							11.50	
							12.50	



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH134

Co-ordinates E=-667
N=-1450

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 203.355 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
12.75m completely to highly weathered, fine to medium grained, reddish brown to yellowish brown, fractured rock. 15.00m								R6	CR=20% RQD=NIL 13.50
								R7	CR=21% RQD=NIL 14.50
								R8	CR=32% RQD=NIL 15.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET | **BORE HOLE NO.DBH135** | Co-ordinates E=-562 N=-1432

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	1	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 203.554 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 2.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES		
		EACH DIVN. = 15cm.				Ref. No	Depth (m)	
0.00m								
Hard, reddish brown, silty clay with moorum.				40		*UDS-1	0.50-0.95	
		14	18	22		SPT-1	1.10-1.55	
						DS-1	2.00	
2.30m				51				
Hard, brownish grey, silty clay.		16	22	29		SPT-2	2.50-2.95	
						DS-2	3.50	
4.00m		100		refusal		*SPT-3	4.00-4.04 4.00	
Completely / highly weathered, reddish brown to yellowish brown, fine to medium grained, fractured rock.		4.0	cm	Pentn.		R1	CR=14% RQD=NIL	
		100		refusal		SPT-4	5.00-5.02 5.00	
		100	2.0	cm	Pentn.		R2	CR=17% RQD=NIL
		100		>100		SPT-5	6.00-6.10 6.00	
		100	10.0	cm	Pentn.		R3	CR=33% RQD=NIL
		100		refusal		*SPT-6	7.00-7.02 7.00	
		100	2.0	cm	Pentn.		R4	CR=23% RQD=NIL
		100		>100		SPT-7	8.00-8.08 8.00	
		100	8.0	cm	Pentn.		R5	CR=22% RQD=NIL
		100		refusal		SPT-8	9.00-9.06 9.00	
		100	6.0	cm	Pentn.		R6	CR=21% RQD=NIL
	100		refusal		*SPT-9	10.00-10.02 10.00		
	100	2.0	cm	Pentn.		R7	CR=21% RQD=NIL	
	100		refusal		*SPT-10	11.00-11.03 11.00		
	100	3.0	cm	Pentn.		R8	CR=20% RQD=NIL	
	100		refusal		*SPT-11	12.00-12.02 12.00		
	100	2.0	cm	Pentn.		R9	CR=19% RQD=NIL	
12.75m								

BORE LOG DATA SHEET BORE HOLE NO.DBH135

Co-ordinates E=-562
N=-1432

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	13	Undisturbed (UDS)	1	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	13	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 203.554 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Completely weathered, reddish brown to yellowish brown, fine grained fractured rock.	12.75m	100	refusal			*SPT-12	13.00-13.03 13.00
		3.0	cm Pentn.			R10	CR=16% RQD=NIL
		100	refusal			*SPT-13	14.00-14.02 14.00
		2.0	cm Pentn.			R11	CR=20% RQD=NIL
	15.00m						15.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH136

Co-ordinates E=-1933
N=-1458

Field Test	Nos	Samples	Nos	Commencement Date : 15/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 15/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 202.888 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.20 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Hard, reddish brown, clayey silt / silty clay with moorum.							UDS-1	0.50-0.80
							DS-1	1.50
		8	14	19	<u>33</u>		SPT-1	2.00-2.45
2.80m								
Very stiff, reddish brown, clayey silt / silty clay.							DS-2	3.00
							*UDS-2	3.50-3.56
		7	11	14	<u>25</u>		SPT-2	4.00-4.45
5.50m								
Hard, reddish brown, clayey silt / silty clay.		15	24	32	<u>56</u>		SPT-3	5.50-5.95
							DS-4	6.50
		18	27	35	<u>62</u>		SPT-4	7.00-7.45
9.00m								
Highly weathered, yellowish brown, fine grained, rock.		17	32	28	<u>60</u>		SPT-5	8.50-8.95
		100			Refusal		*SPT-6	9.00-9.02 9.00
			2.0	cm	Pentn.		R1	CR=34% RQD=Nil
10.00m								
		100			Refusal		*SPT-7	10.00-10.03 10.00
			3.0	cm	Pentn.			
		NX rotary drilling from 9.00m to 10.00m						

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation For Lara STPP, Stage II.

CETEST

Job No : 4607

Created by : SKD

Created on : 21/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH137

Co-ordinates E=-1405
N=-1459

Field Test	Nos	Samples	Nos	Commencement Date : 13/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 13/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 202.246 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Reddish brown, clayey silt with moorum.								UDS-1	0.50-0.80
1.80m								DS-1	1.50
Hard, yellowish brown, clayey silt with kankar.		7	13	19			<u>32</u>	SPT-1	2.00-2.45
								DS-2	3.00
								*UDS-2	3.50-3.58
		14	17	21			<u>38</u>	SPT-2	4.00-4.45
5.45m								DS-3	5.00
Hard, yellowish brown, clayey silt / silty clay.		18	22	25			<u>47</u>	SPT-3	5.50-5.95
								DS-4	6.50
		11	18	15			<u>33</u>	SPT-4	7.00-7.45
								DS-5	8.00
10.45m		15	28	31			<u>59</u>	SPT-5	8.50-8.95
								DS-6	9.50
		20	28	26			<u>54</u>	SPT-6	10.00-10.45

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II.

CETEST

Job No : 4607

Created by : SKD

Created on : 21/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH138

Co-ordinates E=-1943
N=-1599

Field Test	Nos	Samples	Nos	Commencement Date : 13/10/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 14/10/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 203.366 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.70 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.75
Hard, reddish brown, clayey silt with moorum.		14	10	28	38			DS-1	1.50
								SPT-1	2.00-2.45
								DS-2	3.00
2.80m								SPT-2	3.50-3.95
Hard, reddish brown, clayey silt.		22	35	39	74			DS-3	4.50
								SPT-3	5.00-5.02
								R1	CR=26% RQD=Nil
5.00m		100							5.00
Highly weathered, reddish brown, fine grained, fractured rock.		2.0	cm	Pentn.	Refusal				6.00
									7.00
									8.00
									9.00
									10.00
6.00m								R2	CR=25% RQD=Nil
Highly weathered, reddish brown, fine to medium grained, fractured rock.								R3	CR=23% RQD=Nil
								R4	CR=34% RQD=Nil
								R5	CR=36% RQD=Nil
8.00m									8.00
Highly weathered, reddish brown, fine to medium grained, fractured rock.									9.00
									10.00
10.00m									10.00





Project : Geotechnical Investigation For Lara STPP, Stage II.

CETEST

Job No : 4607

Created by : SKD

Created on : 21/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH139

Co-ordinates E=-1410
N=-1598

Field Test	Nos	Samples	Nos	Commencement Date : 12/11/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 12/11/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 204.510 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.80 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Reddish brown, silty clay with moorum.								UDS-1	0.50-0.95
								DS-1	1.50
1.80m									
Very stiff, yellowish grey, sity clay.		6	9	14	23			SPT-1	2.00-2.45
								DS-2	3.00
								*UDS-2	3.50-3.95
4.55m		8	11	17	28			SPT-2	4.10-4.55
Hard, yellowish grey, silty clay.								DS-3	5.00
		48	52	>100				SPT-3	5.50-5.75
6.00m		100						*SPT-4	6.00-6.04
Highly weathered, light grey, medium grained, rock.								R1	CR=25% RQD=Nil
7.00m									
Highly weathered, light grey, medium grained, rock.								R2	CR=27% RQD=Nil
								R3	CR=28% RQD=Nil
								R4	CR=30% RQD=Nil
10.00m									

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET | **BORE HOLE NO.DBH140** Co-ordinates E=-1943 N=-1802

Field Test	Nos	Samples	Nos	Commencement Date : 15/11/2022
Penetrometer (SPT)	1	Undisturbed (UDS)	1	Completion Date : 15/11/2022
Cone (Pc)		Penetrometer (SPT)	1	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 202.624 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Reddish brown, clayey silt.							UDS-1	0.50-0.75
							DS-1	1.50
2.00m							*SPT-1	2.00-2.02 2.00
							R1	CR=22% RQD=NIL ↓ 3.00
							R2	CR=25% RQD=NIL ↓ 4.00
Highly weathered, reddish brown, fine grained fractured rock.							R3	CR=23% RQD=NIL ↓ 5.00
							R4	CR=30% RQD=NIL ↓ 6.00
							R5	CR=25% RQD=NIL ↓ 7.00
							R6	CR=22% RQD=NIL ↓ 8.00
8.00m							R7	CR=27% RQD=NIL ↓ 9.00
							R8	CR=29% RQD=NIL ↓ 10.00
10.00m								

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH141

Co-ordinates E=-1400
N=-1990

Field Test	Nos	Samples	Nos	Commencement Date : 11/11/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 12/11/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 204.755 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Dense to very dense, reddish brown, silty sand with moorum.		100						*UDS-1	0.50-0.58
			6.0	cm	Pentn.			*SPT-1	1.00-1.06
								DS-1	1.50
		21	26	31				SPT-2	2.00-2.45
2.80m									
Hard, reddish brown clayey silt / silty clay.								DS-2	3.00
								UDS-2	3.50-3.95
		25	32	39				DS-3	4.50
6.00m									
Slightly weathered, greyish black, fine grained fractured rock.		100						*SPT-4	6.00-6.03 6.00
			3.0	cm	Pentn.			R1	CR=63% RQD=45%
8.00m									
Moderately weathered, greyish black, fine grained, fractured rock.								R2	CR=62% RQD=60%
								R3	CR=49% RQD=30%
10.00m									
								R4	CR=30% RQD=Nil

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH142

Co-ordinates E=-1941
N=-1974

Field Test	Nos	Samples	Nos	Commencement Date : 12/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 12/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 204.876 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.10 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Hard, reddish brown, clayey silt with moorum.		13	28	31	59			*UDS-1	0.50-0.57
								SPT-1	1.00-1.45
1.80m								DS-1	2.00
Hard, reddish brown, clayey silt.		22	34	38	72			SPT-2	2.50-2.95
								DS-2	3.50
4.00m		100			refusal			*SPT-3	4.00-4.05 4.00
Completely weathered, blackish brown to yellowish brown, fine grained, fractured rock.		5.0	cm	Pentn.				R1	CR=20% RQD=NIL
								R2	CR=19% RQD=NIL
		100			refusal			*SPT-4	6.00-6.02 6.00
		2.0	cm	Pentn.				R3	CR=18% RQD=NIL
		100			refusal			*SPT-5	7.00-7.02 7.00
		2.0	cm	Pentn.				R4	CR=20% RQD=NIL
10.00m		100			refusal			R5	CR=23% RQD=NIL
		2.0	cm	Pentn.				*SPT-6	10.00-10.02 10.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET | **BORE HOLE NO.DBH143** Co-ordinates E=-1673 N=-1802

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 15/11/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 202.887 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.10 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m Reddish brown, silty clay with moorum.							*UDS-1	0.50-0.95
1.00m Very stiff, yellowish grey, silty clay.		7	9	13	22		SPT-1	1.10-1.55
2.50m Hard, yellowish grey, silty clay.		40	60	≥100			DS-1	2.00
3.00m Highly to moderately weathered, grey, medium grained, fractured rock.		100	10.0 cm Pentn. refusal				SPT-2	2.50-2.75
			3.0 cm Pentn.				SPT-3	3.00-3.03 3.00
							R1	CR=37% RQD=NIL
							R2	CR=49% RQD=24%
							R3	CR=57% RQD=48%
							R4	CR=64% RQD=29%
							R5	CR=63% RQD=22%
							R6	CR=62% RQD=51%
							R7	CR=71% RQD=55%
							R8	CR=85% RQD=18%
							R9	CR=87% RQD=78%
							R10	CR=88% RQD=55%
12.75m								

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 29/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.DBH143

Co-ordinates E=-1673
N=-1802

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 15/11/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 202.887 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Slightly weathered to fresh, light grey, medium grained rock.	↖	12.75m						R11	↓ 13.00
									CR=97% RQD=11%
		15.00m						R12	↓ 15.00
								CR=95% RQD=37%	↓

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH144

Co-ordinates E=-1402
N=-1797

Field Test	Nos	Samples	Nos	Commencement Date : 11/11/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 11/11/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 204.336 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.80
Reddish brown, clayey silt with moorum.								DS-1	1.50
1.80m		8	14	19	33			SPT-1	2.00-2.45
Hard, reddish brown, clayey silt / silty clay.								DS-2	3.00
					76			UDS-2	3.50-3.95
		11	30	46				SPT-2	4.50-4.95
4.80m		100			refusal			*SPT-3	5.00-5.03 5.00
		3.0	cm	Pentn.				R1	CR=30% RQD=NIL ↓ 6.00
								R2	CR=38% RQD=NIL ↓ 7.00
								R3	CR=40% RQD=NIL ↓ 8.00
								R4	CR=28% RQD=NIL ↓ 9.00
								R5	CR=38% RQD=NIL ↓ 10.00
10.00m									
Highly to moderately weathered, blackish grey, fine to medium grained fractured rock.									

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II.

CETEST

Job No : 4607

Created by : SKD

Created on : 21/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH146

Co-ordinates E=-1670
N=-1600

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 14/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 202.373 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Hard, reddish brown, clayey silt with moorum.								UDS-1	0.50-0.80
								DS-1	1.50
		13	22	27	49			SPT-1	2.00-2.45
2.80m								DS-2	3.00
Hard, yellowish brown, clayey silt.								UDS-2	3.50-3.95
		9	13	17	30			SPT-2	4.50-4.95
								DS-3	5.50
		14	17	22	39			SPT-3	6.00-6.45
								DS-4	7.00
		18	22	35	57			SPT-4	7.50-7.95
10.45m								DS-5	8.50
		22	28	32	60			SPT-5	9.00-9.45
		19	28	35	63			SPT-6	10.00-10.45



BORE LOG DATA SHEET | **BORE HOLE NO.DBH147** | Co-ordinates E=-1711 N=-1449

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 17/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 201.122 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Reddish brown, clayey silt.							UDS-1	0.50-0.85
							DS-1	1.50
2.00m		5	10	9	19		SPT-1	2.00-2.45
Very stiff, reddish brown, clayey silt with moorum.							DS-2	3.00
							*UDS-2	3.50-3.95
4.80m		12	18	25	43		DS-3	4.50
							SPT-2	5.00-5.45
							DS-4	6.00
		14	22	28	50		SPT-3	6.50-6.95
							DS-5	7.50
		18	24	29	53		SPT-4	8.00-8.45
Hard, yellowish brown, clayey silt.							DS-6	9.00
		19	28	23	51		SPT-5	9.50-9.95
							DS-7	10.50
		45	38	42	80		SPT-6	11.00-11.45
12.00m		100			refusal		*SPT-7	12.00-12.03 12.00
Highly to moderately weathered, blackish grey, fine grained, fractured rock.		3.0	cm	Pentn.			R1	CR=28% RQD=NIL
12.75m								

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh. **CETEST**

Job No : 4607 Created by : Sumona Created on : 29/11/2022 Sheet No:

BORE LOG DATA SHEET | **BORE HOLE NO.DBH147** Co-ordinates E=-1711 N=-1449

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 17/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 201.122 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Highly to moderately weathered, blackish grey, fine grained, fractured rock.	12.75m							R2	13.00 CR=41% RQD=32%
	15.00m							R3	14.00 CR=47% RQD=33%

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH148

Co-ordinates E=-1701
N=-1972

Field Test	Nos	Samples	Nos	Commencement Date : 11/11/2022
Penetrometer (SPT)	4	Undisturbed (UDS)	1	Completion Date : 12/11/2022
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 203.937 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.95
Stiff, reddish brown, silty clay.						11		DS-1	1.50
		5	5	6				SPT-1	2.00-2.45
								DS-2	3.00
		4	6	8		14		SPT-2	3.50-3.95
4.00m								DS-3	4.50
Hard, reddish brown, silty clay with decomposed rock fragment.		27	100			>100		SPT-3	4.70-4.88
		100	310			cm Pentn.		*SPT-4	5.00-5.02 5.00
5.00m						refusal		R1	CR=35% RQD=12%
						2.0 cm Pentn.			6.00
								R2	CR=44% RQD=12%
									7.00
								R3	CR=39% RQD=NIL
Highly weathered / moderately, blackish grey to greyish black, medium to fine grained highly fractured rock.									8.00
								R4	CR=37% RQD=10%
									9.00
								R5	CR=32% RQD=NIL
10.00m									10.00

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH149

Co-ordinates E=-1920
N=-2057

Field Test	Nos	Samples	Nos	Commencement Date : 12/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 12/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 205.594 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Stiff, reddish brown, clayey silt / silty clay with moorum.								*UDS-1	0.50-0.58
		100						*SPT-1	1.00-1.03
		3.0	cm						
Stiff, reddish brown, clayey silt / silty clay.								DS-1	2.00
		3	6	8				SPT-2	2.50-2.95
								DS-2	3.50
Stiff, reddish brown, clayey silt / silty clay.								SPT-3	4.00-4.45
		5	9	10				DS-3	5.00
Hard, reddish brown, clayey silt / silty clay.								SPT-4	5.50-5.95
		7	13	18				DS-4	6.50
								SPT-5	7.00-7.45
		11	12	18				DS-5	8.00
Hard, reddish brown, clayey silt / silty clay.								SPT-6	8.50-8.95
		17	19	23				DS-6	9.50
								SPT-7	10.00-10.45
		12	35	23					

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET | BORE HOLE NO.DBH150

Co-ordinates E=-1713
N=-2153

Field Test	Nos	Samples	Nos	Commencement Date : 11/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 12/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 204.308 m.
		Water Sample (WS)	0	Water Struck At :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Brownish grey, silty clay.								UDS-1	0.40-0.85
1.80m Very stiff, yellowish brown, silty clay with moorum.		8	11	13	24			DS-1	1.50
2.50m Stiff to very stiff, reddish brown to yellowish brown, silty clay.		4	6	8	14			SPT-1	2.00-2.45
								DS-2	3.00
		6	8	15	23			SPT-2	3.50-3.95
								DS-3	4.50
6.00m Hard, reddish brown to yellowish brown, silty clay, with decomposed rock fragment.		16	38	50	>100			SPT-3	5.00-5.45
7.00m Highly weathered, light grey to whitish grey, medium grained, highly fractured rock.		100			refusal			DS-4	6.00
		3.0			Pentn.			SPT-4	6.40-6.80
								*SPT-5	7.00-7.03 7.00
								R1	CR=31% RQD=NIL ↓ 8.00
								R2	CR=39% RQD=NIL ↓ 9.00
								R3	CR=41% RQD=NIL ↓ 10.00
								R4	CR=41% RQD=10% ↓ 11.00
								R5	CR=57% RQD=11% ↓ 12.00
12.75m Moderately weathered to slightly weathered, blackish grey to greyish black, fine grained, fractured rock.								R6	CR=59% RQD=46% ↓ ↘

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 29/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.DBH150

Co-ordinates E=-1713
N=-2153

Field Test	Nos	Samples	Nos	Commencement Date : 11/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 12/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 204.308 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 1.80 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Moderately weathered to slightly weathered, blackish grey to greyish black, fine grained, fractured rock.	↖							R7	13.00
									CR=52% RQD=31%
	↘							R8	14.00
									CR=72% RQD=24%
									15.00

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH151

Co-ordinates E=-1464
N=-2067

Field Test	Nos	Samples	Nos	Commencement Date : 11/10/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 11/10/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 205.545 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.00 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of moorum.		100						*UDS-1	0.50-0.58
		3.0	cm	Pentn.				*SPT-1	1.00-1.03
								DS-1	1.50
1.80m		11	18	23				SPT-2	2.00-2.45
Very stiff to hard, yellowish brown, clayey silt with lite kankars.								DS-2	3.00
		9	11	15				UDS-2	3.50-3.95
								SPT-3	4.00-4.45
5.00m		17	19	24				DS-3	5.00
Hard, reddish brown, clayey silt / silty clay.								SPT-4	5.50-5.95
		9	11	19				DS-4	6.50
								SPT-5	7.00-7.45
10.00m		15	21	19				DS-5	8.00
								SPT-6	8.50-8.95
		12	25	28				DS-6	9.50
								SPT-7	10.00-10.45

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET | **BORE HOLE NO.DBH152** Co-ordinates E=-1940 N=-2562

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 17/11/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 209.507 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Reddish brown, silty clay with moorum.							*UDS-1	0.50-0.95
1.00m		8	12	14	26		SPT-1	1.10-1.55
Very stiff, reddish brown, silty clay.							DS-1	2.00
2.50m		42	40	50	>100		SPT-2	2.50-2.83
Hard, reddish brown, silty clay.					3.0 cm Pentn. refusal		*SPT-3	3.00-3.04 3.00
3.00m		100			4.0 cm Pentn. refusal		R1	CR=13% RQD=NIL
Completely to highly weathered, reddish brown to brownish grey, fine grained fractured rock.		100			2.0 cm Pentn.		*SPT-4	4.00-4.02 4.00
5.00m							R2	CR=23% RQD=NIL
							R3	CR=32% RQD=20%
							R4	CR=30% RQD=NIL
							R5	CR=27% RQD=NIL
							R6	CR=32% RQD=NIL
							R7	CR=26% RQD=NIL
10.00m								10.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET | BORE HOLE NO.DBH153

Co-ordinates E=-1213
N=-2408

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 212.019 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.30 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Very stiff, yellowish brown, clayey silt with moorum.	0.00m							UDS-1	0.50-0.95
	4.00m							DS-1	1.50
		8	11	15			26	SPT-1	2.00-2.45
								DS-2	3.00
								*UDS-2	3.50-3.60
		25	100				>100	SPT-2	4.00-4.25
Hard, yellowish brown, silty clay.	9.00m								
		19	46	50			>100	SPT-3	5.00-5.33
		20	31	39			70	SPT-4	6.00-6.45
		17	25	31			56	SPT-5	7.50-7.95
Highly weathered, yellowish grey, medium coarse grained fractured & decomposed rock.	12.75m						DS-3	7.00	
								DS-4	8.50
		100					>100	*SPT-6	9.00-9.05 9.00
								R1	CR=31% RQD=NIL
							R2	CR=30% RQD=NIL	
							R3	CR=23% RQD=NIL	
							R4	CR=30% RQD=NIL	



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 22/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH153

Co-ordinates E=-1213
N=-2408

Field Test	Nos	Samples	Nos	Commencement Date : 08/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	2	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 212.019 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.30 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Highly weathered, yellowish grey, medium coarse grained fractured & decomposed rock.	12.75m							R5	13.00 CR=29% RQD=NIL
	15.00m							R6	14.00 CR=29% RQD=NIL 15.00

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.DBH154

Co-ordinates E=-1664
N=-2045

Field Test	Nos	Samples	Nos	Commencement Date : 11/11/2022
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 11/11/2022
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 203.302 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.95
Very stiff, reddish brown, silty clay with decomposed rock fragments.								DS-1	1.50
		5	8	9	17			SPT-1	2.00-2.45
		100			>100			SPT-2	2.80-2.90
2.80m		10.0	cm	Pentn.				*SPT-3	2.80-2.90
3.00m		100		refusal				R1	3.00-3.02 3.00
Highly weathered light grey to deep grey, fine to medium grained highly fractured rock.		2.0	cm	Pentn.					CR=21% RQD=NIL
								R2	4.00
									CR=22% RQD=NIL
								R3	5.00
									CR=28% RQD=12%
8.00m								R4	6.00
									CR=30% RQD=20%
								R5	7.00
10.00m									CR=25% RQD=15%
								R6	8.00
									CR=26% RQD=13%
								R7	9.00
									CR=35% RQD=17%
									10.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH155

Co-ordinates E=-1206
N=-2264

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	2	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 209.959 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.30 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Very stiff, reddish brown, clayey silt with moorum.					19		UDS-1	0.50-0.95
		5	8	11			DS-1	1.50
							SPT-1	2.00-2.45
3.00m								
Hard, reddish brown, silty clay.					43		DS-2	3.00
		16	18	25			*UDS-2	3.50-3.60
							SPT-2	4.00-4.45
					62		DS-3	5.00
		15	27	35			SPT-3	5.50-5.95
7.00m								
Hard, reddish brown, clayey silt.					73		DS-4	6.50
		19	32	41			SPT-4	7.00-7.45
					>100		DS-5	8.00
		25	39	50	5.0 cm Pentn.		SPT-5	8.50-8.85
					>100		DS-6	9.50
	27	45	50	2.0 cm Pentn.		SPT-6	10.00-10.32	
				65				
		12	26	39			SPT-7	11.00-11.45
							DS-7	12.00
12.75m					57			
		19	26	31			SPT-8	12.50-12.95

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 18/11/2022


Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH155

Co-ordinates E=-1206
N=-2264

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	2	Completion Date : 06/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 209.959 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 1.30 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Hard, reddish brown, clayey silt.	12.75m. 							DS-8	13.50
		13	19	26	45	SPT-9	14.00-14.45		
		16	27	32	59	SPT-10	15.00-15.45		
		15.00m.							

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET | BORE HOLE NO.DBH156

Co-ordinates E=-1344
N=-2694

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.945 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Hard, reddish brown, clayey silt with moorum.		13	20	25	45			SPT-1	1.00-1.45
		9	19	20	39			DS-2	2.00
3.70m		10	14	22	36			*UDS-1	3.70-3.80
Hard, reddish brown, silty clay with kankars.								SPT-3	4.00-4.45
		19	41	100	>100			DS-3	5.50
5.90m								SPT-4	6.00-6.32
Very dense, deep brown, sandy silt with decomposed rock.								DS-4	7.00
		100			refusal			*SPT-5	7.50-7.54 7.50
7.50m		4.0	cm	Pentn.				R1	CR=13% RQD=NIL
		100		refusal				*SPT-6	8.00-8.03 8.00
		3.0	cm	Pentn.				R2	CR=17% RQD=NIL
		100		refusal				*SPT-7	9.00-9.05 9.00
		5.0	cm	Pentn.				R3	CR=20% RQD=NIL
		100		refusal				R4	CR=12% RQD=NIL
		4.0	cm	Pentn.				*SPT-8	11.00-11.04 11.00
		100		refusal				R5	CR=18% RQD=NIL
		2.0	cm	Pentn.				*SPT-9	12.00-12.02 12.00
		100		refusal				R6	CR=12% RQD=NIL
12.75m									



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH156

Co-ordinates E=-1344
N=-2694

Field Test	Nos	Samples	Nos	Commencement Date : 09/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 09/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 209.945 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.20 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Completely to highly weathered, yellowish brown to light brownish grey, fine grained fractured rock.	12.75m	100	4.0	cm	refusal			
						*SPT-10	13.00-13.02 13.00	
						R7	CR=20% RQD=NIL ↓ 14.00	
	15.00m					R8	CR=20% RQD=NIL ↓ 15.00	

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH157

Co-ordinates E=-1266
N=-2780

Field Test	Nos	Samples	Nos	Commencement Date : 07/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	9	Level Of Ground : 209.720 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.20 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Dense, reddish brown, silty sand with moorum.		10	19	25	44		*UDS-1	0.50-0.95
							SPT-1	1.10-1.55
2.00m							DS-1	2.00
Hard, reddish brown, silty clay / clay.		14	22	26	48		SPT-2	2.50-2.95
							UDS-2	3.50-3.95
4.60m							DS-2	4.50
		18	26	30	56		SPT-3	5.00-5.45
							DS-3	6.00
		22	32	38	70		SPT-4	6.50-6.95
							DS-4	7.50
		30	39	50	>100	6.0 cm Pentn.	SPT-5	8.00-8.36
Hard, reddish brown to grey, clayey silt with decomposed rock fragments.							DS-5	9.00
		20	100		>100	15.0 cm Pentn.	SPT-6	9.50-9.80
							DS-6	10.50
		12	25	39	64		SPT-7	11.00-11.45
							DS-7	12.00
12.75m		11	20	35	55		SPT-8	12.50-12.95



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.



Job No : 4607

Created by : Sumona

Created on : 23/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH157

Co-ordinates E=-1266
N=-2780

Field Test	Nos	Samples	Nos	Commencement Date : 07/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	2	Completion Date : 07/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	9	Level Of Ground : 209.720 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Hard, reddish brown to grey, clayey silt with decomposed rock fragments.	12.75m							DS-8	13.00
		18	29	100	≥100 7.0 cm Pentn.			SPT-9	13.50-13.87
								DS-9	14.50
	15.00m	22	36	100	≥100 10.0 cm Pentn.			SPT-10	15.00-15.40

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH159

Co-ordinates E=-1216
N=-2034

Field Test	Nos	Samples	Nos	Commencement Date : 30/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 205.450 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.95
Stiff, brownish grey, clayey silt with kankar & traces of moorum.		5	7	8	15			SPT-1	1.50-1.95
2.20m								DS-1	2.50
Very stiff, yellowish brown to reddish brown, silty clay with decomposed rock.		9	12	16	28			SPT-2	3.00-3.45
								UDS-2	3.55-4.00
								DS-2	4.50
5.00m		9	16	22	38			SPT-3	5.00-5.45
Hard, yellowish brown to reddish brown, silty clay with decomposed rock.									
		20	24	35	59			SPT-4	6.00-6.45
7.00m		100						SPT-5	7.00-7.04 7.00
Highly weathered, light/deep grey, fine grained, fractured rock.								R1	CR=30% RQD=10%
								R2	CR=38% RQD=Nil
								R3	CR=36% RQD=Nil
								R4	CR=38% RQD=Nil
								R5	CR=30% RQD=Nil
								R6	CR=33% RQD=10%
12.75m									

Refusal
4.0 cm Pentn.
NX rotary drilling from 7.00m to 15.00m

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 12/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH159

Co-ordinates E=-1216
N=-2034

Field Test	Nos	Samples	Nos	Commencement Date : 30/10/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 01/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 205.450 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 4.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly weathered, light / deep grey, fine grained, fractured rock.	↘							R7	12.75m 13.00m
Moderately to slightly weathered, light to dark grey, fine grained, fractured rock.									R8

BORE LOG DATA SHEET

BORE HOLE NO. DBH160

Co-ordinates E=-1237
N=-2072

Field Test	Nos	Samples	Nos	Commencement Date : 01/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 02/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 206.153 m.
		Water Sample (WS)	0	Water Struck At :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Reddish brown, silty clay with moorum.							UDS-1	0.50-0.95
1.70m Very stiff, yellowish brown to brownish grey, clayey silt. with kankar. Observed steel grey patches.		6	8	13	21		DS-1	1.50
							SPT-1	2.00-2.45
							DS-2	3.00
							UDS-2	3.50-3.95
5.00m Hard, yellowish brown to brownish grey, clayey silt with decomposed rock fragments. Observed steel grey patches.		11	17	25	42		DS-3	4.50
							SPT-2	5.00-5.45
							DS-4	6.00
		28	39	50	>100		SPT-3	6.50-6.85
		100			5.0 cm Pentn.		*SPT-4	7.00-7.03 7.00
					3.0 cm Pentn.		R1	CR=16% RQD=Nil
					Refusa.			↓
		100			4.0 cm Pentn.		*SPT-5	8.00-8.04 8.00
							R2	CR=31% RQD=21%
								↓
							R3	CR=23% RQD=Nil
								↓
							R4	CR=22% RQD=Nil
								↓
							R5	CR=41% RQD=10%
								↓
							R6	CR=40% RQD=11%
								↓
11.00m Highly/moderately weathered, light to dark grey, fine to medium grained, fractured rock.								11.00
12.75m								12.00
								↓

NX rotary drilling from 7.00m to 15.00m

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 19/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. DBH160

Co-ordinates E=-1237
N=-2072

Field Test	Nos	Samples	Nos	Commencement Date : 01/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 02/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 206.153 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 2.20 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly/moderately weathered, light to dark grey, fine to medium grained, fractured rock.	↖							R7	13.00
									CR=36% RQD=Nil
								R8	14.00
									CR=40% RQD=22%
									15.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH161

Co-ordinates E=-1243
N=-2212

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 208.833 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.50 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Very stiff, reddish brown, clayey silt with moorum.					23		*UDS-1	0.50-0.62
		8	9	14			SPT-1	1.00-1.45
	2.00m						DS-1	2.00
Hard, yellowish brown, clayey silt.					41		UDS-2	2.50-2.95
		11	16	25			DS-2	3.50
							SPT-2	4.00-4.45
							DS-3	5.00
	7.50m						SPT-3	6.50-6.95
Hard, yellowish brown, silty clay.					53		DS-4	7.50
		18	24	29			SPT-4	8.00-8.45
							DS-5	9.00
		11	12	19			SPT-5	9.50-9.95
							DS-6	10.50
		13	17	24			SPT-6	11.00-11.45
					41		DS-7	12.00
		8	14	19			SPT-7	12.50-12.95
	12.75m							
					29			
		12	13	16				

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh. **CETEST**

Job No : 4607 Created by : SKD Created on : 19/11/2022 Sheet No:

BORE LOG DATA SHEET **BORE HOLE NO. DBH161** Co-ordinates E=-1243 N=-2212

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 208.833 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 4.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Hard, yellowish brown, silty clay.	12.75m							DS-8	13.50	
		11	15	22			37	SPT-8	14.00-14.45	
		100						Refusal	SPT-9	15.00-15.06
	15.00m	6.0	cm	Pentn.						

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. DBH162

Co-ordinates E=-1127
N=-2262

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 210.248 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 1.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Very stiff, reddish brown, silty clay with moorum.						20		*UDS-1	0.50-0.60
		6	8	12				SPT-1	1.00-1.45
								DS-1	2.00
								UDS-2	2.50-2.95
3.50m									
Hard, reddish brown, clayey silt.						45		DS-2	3.50
		13	19	26				SPT-2	4.00-4.45
								DS-3	5.00
								UDS-2	2.50-2.95
5.50m									
Very stiff to hard, yellowish brown, silty clay.		8	9	13			22	SPT-3	5.50-5.95
								DS-4	6.50
							36	SPT-4	7.00-7.45
								DS-5	8.00
							41	SPT-5	8.50-8.95
								DS-6	9.50
							40	SPT-6	10.00-10.45
								DS-7	11.00
						52	SPT-7	11.50-11.95	
12.75m								DS-8	12.50

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh. **CETEST**

Job No : 4607 Created by : SKD Created on : 19/11/2022 Sheet No:

BORE LOG DATA SHEET **BORE HOLE NO. DBH162** Co-ordinates E=-1127 N=-2262

Field Test	Nos	Samples	Nos	Commencement Date : 05/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	2	Completion Date : 05/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 210.248 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.50 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
Very stiff to hard, yellowish brown, silty clay.	12.75m 13.00m	100					*SPT-8	13.00-13.05 13.00	
Highly weathered, brownish grey, medium grained, fractured rock.	15.00m	5.0 cm Pentn. Refusal					R1	CR=30% RQD=NII	↓ 14.00
		NX rotary drilling from 13.00m to 15.00m					R2	CR=25% RQD=NII	↓ 15.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET **BORE HOLE NO. DBH163** Co-ordinates E=-702 N=-2211

Field Test	Nos	Samples	Nos	Commencement Date : 02/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Completion Date : 02/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	0	Level Of Ground : 204.892 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.70 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Completely/highly weathered, light to brownish grey, fine grained, rock.	↘	12.75m						R14	13.00	
									CR=21% RQD=NII	14.00
									R15	CR=20% RQD=NII
		15.00m						SPT-6	15.00-15.15	
		9350 0 cm Pertn.								
		≥100								

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH164

Co-ordinates E=-720
N=-2254

Field Test	Nos	Samples	Nos	Commencement Date : 22/10/2022
Penetrometer (SPT)	11	Undisturbed (UDS)	0	Completion Date : 27/10/2022
Cone (Pc)		Penetrometer (SPT)	11	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 204.896 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.20 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES		
		EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m							
Light to deep grey, clayey silt.				Refusal	DS-1	0.30	
0.50m	100	2.0	cm	Pentr.	SPT-1 R1	0.50-0.52 0.50 CR=26%/RQD=0%	
		NX rotary drilling from 0.50m to 15.00m			R2	CR=20% RQD=Nil	↓ 1.00
				≥100	R3	CR=21% RQD=Nil	↓ 2.00
	38 47	7.0	cm	Pentr.	SPT-2 R4	3.00-3.22 3.00 CR=22% RQD=Nil	↓ 3.00
	100			Refusal	*SPT-3	4.00-4.03 4.00	↓
		3.0	cm	Pentr.	R5	CR=15% RQD=Nil	↓ 4.00
	45 53			≥100	SPT-4	5.00-5.30 5.00	↓
		15.0	cm	Pentr.	R6	CR=17% RQD=Nil	↓ 5.00
	98			≥100	SPT-5	6.00-6.12 6.00	↓
		12.0	cm	Pentr.	R7	CR=13% RQD=Nil	↓ 6.00
	100			Refusal	*SPT-6	7.00-7.03 7.00	↓
		3.0	cm	Pentr.	R8	CR=23% RQD=Nil	↓ 7.00
	97			≥100	SPT-7	8.00-8.10 8.00	↓
		10.0	cm	Pentr.	R9	CR=13% RQD=Nil	↓ 8.00
	100			Refusal	*SPT-8	9.00-9.02 9.00	↓
		2.0	cm	Pentr.	R10	CR=11% RQD=Nil	↓ 9.00
10.00m	24 31 27			58	SPT-9 R11	10.00-10.45 10.00 CR=Nil RQD=Nil	↓ 10.00
	21 27 35			62	SPT-10 R12	11.00-11.45 11.00 CR=Nil RQD=Nil	↓ 11.00
					R13	CR=18% RQD=Nil	↓ 12.00
12.75m							↓

Completely/highly weathered, light to deep grey, fine to medium grained, fractured rock.

Intermediate geomaterial consists of completely weathered, blackish grey, fine to medium grained, decomposed rock.

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh. **CETEST**

Job No : 4607 Created by : SKD Created on : 10/11/2022 Sheet No:

BORE LOG DATA SHEET **BORE HOLE NO. DBH164** Co-ordinates E=-720 N=-2254

Field Test	Nos	Samples	Nos	Commencement Date : 22/10/2022
Penetrometer (SPT)	11	Undisturbed (UDS)	0	Completion Date : 27/10/2022
Cone (Pc)		Penetrometer (SPT)	11	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 204.896 M.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 10.20 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES			
		EACH DIVN. = 15cm							Ref. No	Depth (m)		
12.75m Intermediate geomaterial consists of completely weathered, blackish grey, fine to medium grained, decomposed rock.	↘					65				SPT-11 R14	13.00-13.45 CR=NiI RQD=NiI	13.00 ↓ 14.00 ↓ 15.00
14.00m Highly weathered, light to deep grey, fine to medium grained, fractured rock.										R15	CR=25% RQD=NiI	
15.00m												

N.B. - '*' means sample could not be recovered.



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh. **CETEST**

Job No : 4607 Created by : Sumona Created on : 24/11/2022 Sheet No:

BORE LOG DATA SHEET **BORE HOLE NO.DBH165** Co-ordinates E=-362 N=-2613

Field Test	Nos	Samples	Nos	Commencement Date : 10/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	2	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 202.010 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Very stiff, reddish brown, silty clay with moorum.					25		*UDS-1	0.50-0.58
		7	9	16			SPT-1	1.00-1.45
							DS-1	2.00
					29		SPT-2	2.50-2.95
		11	14	15			UDS-2	3.50-3.95
							DS-2	4.50
4.80m					29		SPT-3	5.00-5.45
Very stiff, greyish black to brownish grey, silty clay / clayey silt.		6	13	16			DS-3	6.00
					44		SPT-4	6.50-6.95
6.50m		11	19	25			DS-4	7.50
Reddish brown to brownish grey, silty clay with decomposed rock fragment. Obs. steel grey patches.					>100		SPT-5	8.00-8.35
		21	37	100		5.0 cm Pentn.	DS-5	9.00
					>100		SPT-6	9.50-9.90
		17	28	100		10.0 cm Pentn.		
10.50m					refusal		SPT-7	10.50-10.56 10.50
Completely weathered to highly weathered, brownish grey to greyish brown fine grained highly fractured rock.		100	6.0	cm Pentn.			R1	CR=18% RQD=NIL
		100	3.0	cm Pentn.			*SPT-8	11.00-11.03 11.00
					refusal		R2	CR=15% RQD=NIL
		100	1.0	cm Pentn.			*SPT-9	12.00-12.01 12.00
12.75m						R3	CR=23% RQD=NIL	



Project : Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET | BORE HOLE NO.DBH165

Co-ordinates E=-362
N=-2613

Field Test	Nos	Samples	Nos	Commencement Date : 10/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	2	Completion Date : 10/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 202.010 M.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
12.75m Completely weathered to highly weathered, brownish grey to greyish brown fine grained highly fractured rock. 15.00m	↘							R4	13.00 ↓ CR=26% RQD=NIL
								R5	14.00 ↓ CR=22% RQD=NIL
									15.00 ↓

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO.DBH166

Co-ordinates E=-1958
N=-2400

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 19/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 208.485 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.25 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Very stiff, reddish brown, clayey silt with moorum.								*UDS-1	0.50-0.58
		6	10	15	25			SPT-1	1.00-1.45
								DS-1	2.00
		7	12	17	29			SPT-2	2.50-2.95
								DS-2	3.50
		5	11	13	24			SPT-3	4.00-4.45
								DS-3	5.00
4.50m Very stiff to hard, reddish brown, clayey silt with moorum.		9	14	17	31			SPT-4	5.50-5.95
								DS-4	6.50
		10	17	18	35			SPT-5	7.00-7.45
								DS-5	8.00
		8	12	16	28			SPT-6	8.50-8.95
							DS-6	9.50	
10.00m		10	14	19	33			SPT-7	10.00-10.45

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. DBH167

Co-ordinates E=-1742
N=-2397

Field Test	Nos	Samples	Nos	Commencement Date : 18/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 19/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 205.490 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.30 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m								*UDS-1	0.50-0.58
Very stiff, reddish brown, clayey silt with traces of moorum.		7	9	13			22	SPT-1	1.00-1.45
	2.00m							DS-1	2.00
Very stiff, reddish brown to yellowish brown, clayey silt / silty clay.		9	11	17			28	SPT-2	2.50-2.95
								UDS-2	3.50-3.95
								DS-2	4.50
		10	16	14			30	SPT-3	5.00-5.45
								DS-3	6.00
		6	10	11			21	SPT-4	6.50-6.95
								DS-4	7.50
	8	12	16			28	SPT-5	8.00-8.45	
	7	10	12			22	SPT-6	9.00-9.45	
10.00m		9	12	17			29	SPT-7	10.00-10.45

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET | **BORE HOLE NO.DBH168** | Co-ordinates E=-1508 N=-2402

Field Test	Nos	Samples	Nos	Commencement Date : 17/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 17/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 207.579 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 1.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm.						Ref. No	Depth (m)	
0.00m Hard, reddish brown, silty clay with moorum.										
							56	*UDS-1	0.50-0.95	
				18	26	30			SPT-1	1.10-1.55
									DS-1	2.00
							50			
				17	22	28			SPT-2	2.50-2.95
									*UDS-2	3.50-3.60
									DS-2	4.00
							57			
				22	24	33			SPT-3	4.50-4.95
5.50m Hard, reddish grey to brownish grey, silty clay.										
							40			
				8	16	24			SPT-4	6.00-6.45
									DS-4	7.00
							46			
				10	18	28			SPT-5	7.50-7.95
									DS-5	8.50
					62					
		15	27	35			SPT-6	9.00-9.45		
10.00m					68					
		20	30	38			SPT-7	10.00-10.45		

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET | **BORE HOLE NO.DBH169** Co-ordinates E=-1797 N=-2553

Field Test	Nos	Samples	Nos	Commencement Date : 18/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 19/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 207.653 m.
		Water Sample (WS)	0	Water Struck At :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.95
Hard, reddish brown, clayey silt with moorum.		13	15	18	33			DS-1	1.50
								SPT-1	2.00-2.45
								DS-2	3.00
2.80m								*UDS-2	3.50-3.56
Very stiff, reddish brown to yellowish brown, clayey silt.		5	9	13	22			SPT-2	4.00-4.45
5.00m		100						*SPT-3	5.00-5.03 5.00
Highly weathered, fine grained, greyish black to yellowish brown, fractured rock.		3.0	cm	Pentn.	≥100			R1	CR=34% RQD=10%
6.00m		100						SPT-4	6.00-6.08 6.00
Highly weathered, fine grained, yellowish brown, fractured rock.		8.0	cm	Pentn.	≥100			R2	CR=32% RQD=NIL
8.00m		100						SPT-5	7.00-7.10 7.00
Highly weathered, fine grained, greyish black, fractured rock.		10.0	cm	Pentn.	≥100			R3	CR=40% RQD=NIL
10.00m								R4	CR=37% RQD=23%
								R5	CR=41% RQD=NIL
									10.00

N.B. - '*' means sample could not be recovered.

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : Sumona

Created on : 29/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.DBH170

Co-ordinates E=-1951
N=-2215

Field Test	Nos	Samples	Nos	Commencement Date : 18/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 19/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.005 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Yellowish grey, silty clay.								UDS-1	0.50-0.95
1.10m								DS-1	1.50
Hard, reddish brown, silty clay with moorum.		13	19	22			41	SPT-1	2.00-2.45
								DS-2	3.00
		18	25	39			64	SPT-2	3.50-3.95
								DS-3	4.50
4.20m									
Hard, reddish brown, silty clay.		12	16	20			36	SPT-3	5.00-5.45
								DS-4	6.00
		14	20	21			41	SPT-4	6.50-6.95
								DS-5	7.50
		13	24	28			52	SPT-5	8.00-8.45
10.00m		11	18	25			43	SPT-6	9.00-9.45
		12	20	28			48	SPT-7	10.00-10.45

BORE LOG DATA SHEET | BORE HOLE NO.DBH171

Co-ordinates E=-1606
N=-2210

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 19/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground : 206.460 m.
		Water Sample (WS)	0	Water Struck At :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								UDS-1	0.50-0.95
Hard, reddish brown, silty clay with moorum.		16	24	32	56			SPT-1	1.50-1.95
					62			DS-1	2.50
		14	26	36				SPT-2	3.00-3.45
4.00m								DS-2	4.00
Hard, brownish grey, silty clay with decomposed rock.		12	16	22	38			SPT-3	4.50-4.95
					>100			DS-3	5.50
		20	38	50	6.0 cm Pentn.			SPT-4	6.00-6.36
6.50m		100	4.0 cm Pentn.	refusal				SPT-5	6.50-6.54
Moderately weathered, light grey, medium grained, fractured rock.								R1	CR=49% RQD=34%
								R2	CR=45% RQD=41%
								R3	CR=42% RQD=NIL
								R4	CR=48% RQD=10%
10.00m									10.00



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. EBH1

Co-ordinates E=-858
N=-1726

Field Test	Nos	Samples	Nos	Commencement Date : 12/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 13/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	8	Level Of Ground : 209.037 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Very stiff, reddish brown, clayey silt with moorum.								*UDS-1	0.50-0.60
								DS-1	1.00
1.80m		4	7	9			16	SPT-1	1.50-1.95
								DS-2	2.50
Very stiff, brownish grey to yellowish brown, clayey silt with decomposed rock.								UDS-2	3.00-3.45
								DS-3	4.00
4.90m		4	9	14			23	SPT-2	4.50-4.95
								DS-4	5.50
7.50m								SPT-3	6.00-6.45
								DS-5	7.00
Hard, brownish grey to yellowish brown, clayey silt with decomposed rock.		10	17	20			37	SPT-4	7.50-7.95
								DS-6	8.50
9.00m		9	15	26			41	SPT-5	9.00-9.45
								DS-7	10.00
10.50m		13	17	25			42	SPT-6	10.50-10.95
								DS-8	11.50
N.B. - '*' means sample could not be recovered. 12.45m		16	23	29			52	SPT-7	12.00-12.45



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

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Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. EBH2

Co-ordinates E=-1035
N=-1642

Field Test	Nos	Samples	Nos	Commencement Date : 13/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 13/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 207.701 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.35 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Hard, reddish brown, clayey silt with moorum.								DS-1	0.50
		9	16	18	<u>34</u>			SPT-1	1.00-1.45
								DS-2	2.00
2.35m									
Very stiff, yellowish brown to yellowish grey, clayey silt with decomposed rock.		6	10	15	<u>25</u>			SPT-2	2.50-2.95
								UDS-1	3.20-3.65
								DS-3	4.00
		6	10	14	<u>24</u>			SPT-3	4.50-4.95
								DS-4	5.50
		8	11	16	<u>27</u>			SPT-4	6.00-6.45
								DS-5	7.00
	7	12	17	<u>29</u>			SPT-5	7.50-7.95	
							DS-6	8.50	
9.00m		12	12	19	<u>31</u>			SPT-6	9.00-9.45
Hard, yellowish brown to yellowish grey, clayey silt with decomposed rock.									
	10.45m	13	15	21	<u>36</u>			SPT-7	10.00-10.45



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

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Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. EBH3

Co-ordinates E=-1141
N=-1721

Field Test	Nos	Samples	Nos	Commencement Date : 11/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 12/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 208.995 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.15 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Hard, reddish brown, clayey silt with moorum.								DS-1	0.50
		10	14	25	39			SPT-1	1.00-1.45
								DS-2	2.00
		16	20	18	38			SPT-2	2.50-2.95
								UDS-1	3.00-3.45
								DS-3	4.00
		8	15	20	35			SPT-3	4.50-4.95
Hard, yellowish brown, clayey silt with decomposed rock.		10	20	29	49			SPT-4	6.00-6.45
								DS-5	7.00
		10	17	28	45			SPT-5	7.50-7.95
								DS-6	8.50
		14	22	30	52			SPT-6	9.00-9.45
		21	30	41	71			SPT-7	10.00-10.45
10.45m									





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

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Job No : 4607

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Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. EBH4

Co-ordinates E=-1000
N=-1707

Field Test	Nos	Samples	Nos	Commencement Date : 11/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 12/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 207.63 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Hard, reddish brown, clayey silt with moorum.								DS-1	0.50
		8	16	25	41			SPT-1	1.00-1.45
								DS-2	2.00
								UDS-1	2.50-2.95
								DS-3	3.50
			10	13	20	33			SPT-2
2.30m									
Hard, brownish grey to yellowish brown, clayey silt with decomposed rock.								DS-4	5.50
		12	22	31	53			SPT-3	6.00-6.45
								DS-5	7.00
								SPT-4	7.50-7.95
								DS-6	8.50
			10	14	27	41			SPT-5
10.45m		7	16	24	40			SPT-6	10.00-10.45





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

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Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. EBH5

Co-ordinates E=-1117
N=-1761

Field Test	Nos	Samples	Nos	Commencement Date : 12/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 13/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.974 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.30 m.

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	SAMPLER	Depth (m)
		EACH DIVN. = 15cm							
0.00m									
Hard, reddish brown, clayey silt with moorum.							UDS-1	0.50-0.95	
							DS-1	1.00	
2.65m									
							SPT-1	1.50-1.95	
							DS-2	2.50	
Very stiff, brownish grey to yellowish brown, clayey silt with decomposed rock fragments.									
							SPT-2	3.00-3.45	
							DS-3	4.00	
							SPT-3	4.50-4.95	
7.00m							DS-4	5.50	
							SPT-4	6.00-6.45	
							DS-5	7.00	
Hard, brownish grey to yellowish brown, clayey silt with decomposed rock fragments.							SPT-5	7.50-7.61	
							SPT-6	8.00-8.03 8.00	
8.00m							R1	CR=20% RQD=Nil	
							R2	CR=23% RQD=10%	
							R3	CR=21% RQD=Nil	
							R4	CR=20% RQD=Nil	
							R5	CR=25% RQD=Nil	
12.75m									

NX rotary drilling from 8.00m to 15.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.



Job No : 4607

Created by : SKD

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. EBH5

Co-ordinates E=-1117
N=-1761

Field Test	Nos	Samples	Nos	Commencement Date : 12/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 13/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.974 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.30 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely to highly weathered, grey, medium grained, fractured rock. 15.00m	↘							R6	13.00 ↓ 14.00
								R7	14.00 ↓ 15.00



BORE LOG DATA SHEET

BORE HOLE NO. EBH6

Co-ordinates E=-968
N=-1774

Field Test	Nos	Samples	Nos	Commencement Date : 15/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.970 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.60 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m							*UDS-1	0.50-0.58	
Hard, reddish brown, silty clay with moorum.		12	21	26	47		DS-1	1.00	
							SPT-1	1.50-1.95	
							DS-2	2.50	
2.50m							UDS-2	3.00-3.45	
Hard, reddish brown to yellowish brown, silty clay with decomposed rock fragments. Observed steel grey patches.		11	25	29	54		DS-3	4.00	
							SPT-2	4.50-4.95	
							DS-4	5.50	
7.50m							SPT-3	6.00-6.45	
Highly weathered, light grey, fine grained, fractured rock.		100	6.0	cm	Refusal	Penth.	DS-5	7.00	
							*SPT-4	7.30-7.36	
8.50m		100	2.0	cm	Refusal	Penth.	*SPT-5	7.50-7.52 7.50	
Moderately weathered, light to dark grey, fine grained, fractured rock.		NX rotary drilling from 7.50m to 15.00m						R1	CR=35% RQD=13%
								R2	CR=52% RQD=Nil
								R3	CR=57% RQD=12%
10.50m							R4	CR=36% RQD=Nil	
Highly/moderately weathered, greyish black to blackish grey, fine to medium grained, fractured rock.							R5	CR=43% RQD=13%	
12.75m								12.50	



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 28/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. EBH6

Co-ordinates E=-968
N=-1774

Field Test	Nos	Samples	Nos	Commencement Date : 15/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	2	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.970 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly/moderately weathered, greyish black to blackish grey, fine to medium grained, fractured rock.	12.75m							R6	CR=40% RQD=Nil
								R7	CR=40% RQD=Nil
	15.00m							R8	CR=30%/RQD=0%

N.B. - '*' means sample could not be recovered.





Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 24/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. EBH7

Co-ordinates E=-1087
N=-1857

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 208.854 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.80 m.

DESCRIPTION	SYMBOL	N-VALUE					Ref. No	SAMPLES
		EACH DIVN. = 15cm						
0.00m								
Hard, reddish brown, silty clay with moorum.					59		DS-1	0.50
1.40m		19	29	30			SPT-1	1.00-1.45
							DS-2	2.00
							UDS-1	2.50-2.95
							DS-3	3.50
					32		SPT-2	4.00-4.45
Hard, yellowish brown, clayey silt with kankar.							DS-4	5.00
							SPT-3	5.50-5.95
							DS-5	6.50
							SPT-4	7.00-7.45
							DS-6	8.00
8.50m					67		SPT-5	8.50-8.95
Hard, grey, clayey silt with decomposed rock fragments.							SPT-6	9.50-9.62
					>100			
		100	12.0	cm Pentn.			SPT-7	10.00-10.04
10.00m		100	4.0	cm Pentn.				10.00
							R1	CR=21% RQD=Nil
								11.00
							R2	CR=20% RQD=Nil
								12.00
Completely to highly weathered, rock.							R3	CR=25% RQD=Nil
12.75m								

NX rotary drilling from 10.00m to 15.00m



Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.



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BORE HOLE NO. EBH7

Co-ordinates E=-1087
N=-1857

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 208.854 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.80 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Completely to highly weathered, rock.									13.00
Highly weathered, rock.								R4	CR=37% RQD=Nil
								R5	CR=35% RQD=13%
									15.00



BORE LOG DATA SHEET BORE HOLE NO. CHST1(M) Co-ordinates E=-1125 N=-1755

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 18/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.123 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m							DS-1	0.50	
Hard, reddish brown, clayey silt with moorum.		9	16	23	39		SPT-1	1.00-1.45	
							DS-2	2.00	
	2.60m						UDS-1	2.60-3.05	
Hard, yellowish brown to grey, clayey silt with decomposed rock fragments.		10	15	25	40		SPT-2	4.00-4.45	
							DS-4	5.00	
		12	14	27	41		SPT-3	5.50-5.95	
							DS-5	6.50	
		32	100	>100			SPT-4	7.00-7.26	
		11.0 cm Pentn. Refusal							
8.00m		100	3.0 cm Pentn.					*SPT-5	7.90-7.93 8.00
Highly weathered, grey, medium grained, fractured rock.		NX rotary drilling from 8.00m to 16.00m					R1	CR=24% RQD=Nil	↓
	9.00m						R2	CR=28% RQD=Nil	↓
Highly to moderately weathered, grey to deep grey, medium grained, fractured rock.							R3	CR=37% RQD=14%	↓
							R4	CR=36% RQD=22%	↓
	12.75m						R5	CR=39% RQD=16%	↓

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh.

CETEST

Job No : 4607

Created by : SKD

Created on : 28/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. CHST1(M)

Co-ordinates E=-1125
N=-1755

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 18/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.123 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Highly to moderately weathered, grey to deep grey, medium grained, fractured rock.	↘							R6	13.00 CR=50% RQD=29%
14.00m Moderately to slightly weathered, grey to deep grey, medium grained, fractured rock.								R7	14.00 CR=54% RQD=12%
16.00m								R8	15.00 CR=70% RQD=10%
									16.00

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET BORE HOLE NO. **CHST1(R1)**

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Hard, yellowish brown, clayey silt with moorum.						39	DS-1	0.50
		12	13	26			SPT-1	1.00-1.45
							DS-2	2.00
		10	14	19		33	SPT-2	2.50-2.95
							DS-3	3.50
2.50m Hard, light brownish grey, clayey silt with decomposed rock.		10	16	15		31	SPT-3	4.00-4.45
							DS-4	5.00
		14	20	29		49	SPT-4	5.50-5.95
							DS-5	6.50
		19	37	100		>100	SPT-5	7.00-7.35
8.00m Highly to moderately weathered, grey, medium grained, fractured rock.						5.0 cm Pentn. Refusal		
		100					SPT-6	8.00-8.02 8.00
							R1	CR=21% RQD=Nil
							R2	CR=27% RQD=Nil
							R3	CR=35% RQD=Nil
						R4	CR=38% RQD=12%	
						R5	CR=31% RQD=Nil	
12.75m								

NX rotary drilling from 8.00m to 16.00m



BORE LOG DATA SHEET BORE HOLE NO. **CHST1(R1)**

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES				
		EACH DIVN. = 15cm						Ref. No	Depth (m)			
Highly to moderately weathered, grey, medium grained, fractured rock.	↖	12.75m							R6	13.00		
										CR=41% RQD=Nil	14.00	
										R7	CR=43% RQD=Nil	15.00
										R8	CR=41% RQD=Nil	16.00
		16.00m										

BORE LOG DATA SHEET

BORE HOLE NO.

CHST1(R2)

Field Test	Nos	Samples	Nos	Commencement Date : 13/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Completion Date : 14/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely to highly weathered, grey, medium grained, fractured rock.	↘							R6	13.00 ↓ CR=23% RQD=Nil ↓ 14.00
15.00m Highly weathered, grey, medium grained, fractured rock.								R7	15.00 ↓ CR=22% RQD=Nil ↓ 16.00
16.00m								R8	

BORE LOG DATA SHEET

BORE HOLE NO. CHST2(M)

Co-ordinates E=-966
N=-1754

Field Test	Nos	Samples	Nos	Commencement Date : 13/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 14/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.706 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Hard, yellowish brown, silty clay with moorum.					31		DS-1	0.50
		9	12	19			SPT-1	1.00-1.45
							DS-2	2.00
2.40m							UDS-1	2.50-2.95
Hard, brownish grey to yellowish brown, clayey silt with decomposed rock.					48		DS-3	3.50
		12	19	29			SPT-2	4.00-4.45
							DS-4	5.00
7.50m					38		SPT-3	5.50-5.95
Completely to highly weathered, light grey to greyish black, medium to fine grained, fractured rock.					>100		DS-5	6.50
		100	13.0	cm	Pentn.		SPT-4	7.00-7.13
		100	3.0	cm	Pentn.		*SPT-5	7.50-7.53 7.50
					Refusa.		R1	CR=19% RQD=Nil ↓
Completely to highly weathered, light grey to greyish black, medium to fine grained, fractured rock.		100	3.0	cm	Pentn.		*SPT-6	8.50-8.53 8.50
					Refusa.		R2	CR=18% RQD=Nil ↓
		100	2.0	cm	Pentn.		*SPT-7	9.50-9.52 9.50
Completely/highly weathered, greyish black to blackish grey, fine grained, fractured rock.							R3	CR=22% RQD=Nil ↓
							R4	CR=21% RQD=Nil ↓
							R5	CR=21% RQD=Nil ↓
11.50m								10.50
12.75m								11.50
								12.50

NX rotary drilling from 7.50m to 16.00m

BORE LOG DATA SHEET

BORE HOLE NO. CHST2(M)

Co-ordinates E=-966
N=-1754

Field Test	Nos	Samples	Nos	Commencement Date : 13/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 14/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.706 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely/highly weathered, greyish black to blackish grey, fine grained, fractured rock.	↘							R6	CR=17% RQD=11% 13.50
14.50m								R7	CR=18% RQD=Nil 14.50
16.00m Highly weathered, greyish black to blackish grey, fine grained, fractured rock.								R8	CR=29% RQD=Nil 15.50
								R9	CR=34%/RQD=0% 16.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO.

CHST2(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Completion Date : 15/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Very stiff to hard, reddish brown, silty clay with moorum.		7	12	18	30		SPT-1	1.00-1.45
							DS-1	2.00
3.00m		9	14	17	31		SPT-2	2.50-2.95
							DS-2	3.50
Hard, brownish grey to yellowish brown, clayey silt with decomposed rock fragments.		12	16	19	35		SPT-3	4.00-4.45
							DS-3	5.00
7.50m		10	21	28	49		SPT-4	5.50-5.95
							DS-4	6.50
NX rotary drilling from 7.50m to 16.00m		28	37	50	>100	3.0 cm Pentn.	SPT-5	7.00-7.38
		100	Refusal			3.0 cm Pentn.	*SPT-6	7.50-7.53 7.50
Completely/highly weathered, light grey to greyish black, medium to fine grained, fractured rock.							R1	CR=17% RQD=Nil
							R2	CR=21% RQD=Nil
							R3	CR=26% RQD=Nil
							R4	CR=18% RQD=Nil
							R5	CR=22% RQD=12%
12.75m								12.50

BORE LOG DATA SHEET BORE HOLE NO. **CHST2(R1)**

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Completion Date : 15/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Completely/highly weathered, light grey to greyish black, medium to fine grained, fractured rock. 12.75m								R6	CR=26% RQD=17%	13.50
								R7	CR=22% RQD=15%	14.50
								R8	CR=18% RQD=Nil	15.50
								R9	CR=12%/RQD=0%	16.00
		16.00m								

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET BORE HOLE NO. **CHST2(R2)**

Field Test	Nos	Samples	Nos	Commencement Date : 15/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	0	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Hard, reddish brown, silty clay with moorum.		19	34	50	<u>>100</u>		SPT-1	0.50-0.85
				5.0	cm Pentn.		DS-1	1.50
2.60m		17	21	27	<u>48</u>		SPT-2	2.00-2.45
							DS-2	3.00
		9	13	17	<u>30</u>		SPT-3	3.50-3.95
							DS-3	4.00
Hard, reddish brown to yellowish brown, silty clay with decomposed rock fragments.		10	14	19	<u>33</u>		SPT-4	4.50-4.95
							DS-4	5.50
		12	18	26	<u>44</u>		SPT-5	6.00-6.45
							DS-5	6.80
7.50m		24	100		<u>>100</u>		SPT-6	7.20-7.38
			3.0		cm Pentn.		*SPT-7	7.50-7.52 7.50
		100			<u>Refusal</u>		R1	CR=10% RQD=Nil
			2.0		cm Pentn.			↓ 8.50
					<u>NX rotary drilling from 7.50m to 16.00m</u>		R2	CR=11% RQD=Nil
								↓ 9.50
Completely/highly weathered, light grey to greyish black, medium to fine grained, fractured rock.		100			<u>Refusal</u>		*SPT-8	9.50-9.52 9.50
			2.0		cm Pentn.		R3	CR=14% RQD=Nil
								↓ 10.50
							R4	CR=10% RQD=Nil
								↓ 11.50
							R5	CR=16% RQD=Nil
12.75m								↓ 12.50

BORE LOG DATA SHEET

BORE HOLE NO.

CHST2(R2)

Field Test	Nos	Samples	Nos	Commencement Date : 15/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	0	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Completely/highly weathered, light grey to greyish black, medium to fine grained, fractured rock.	↘	12.75m						R6	CR=14% RQD=Nil	13.50
								R7	CR=19% RQD=17%	14.50
								R8	CR=17% RQD=15%	15.50
								R9	CR=14%/RQD=0%	16.00
		16.00m								

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

BORE HOLE NO. CHST3(M)

Co-ordinates E=-1168
N=-1839

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.123 m.
		Water Sample (WS)	0	Water Struck At :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m									
Reddish brown, silty clay with moorum.							DS-1	0.50	
1.20m							UDS-1	1.00-1.45	
Very stiff, yellowish brown to brownish grey, clayey silt with kankar.							DS-2	2.00	
		9	12	15	27		SPT-1	2.50-2.95	
							DS-3	3.50	
4.00m							SPT-2	4.00-4.45	
Hard, yellowish brown to brownish grey, clayey silt with kankar & rock fragments.		12	13	21	34		DS-4	5.00	
		15	22	30	52		SPT-3	5.50-5.95	
							DS-5	6.50	
		31	100	>100			SPT-4	7.00-7.27	
Highly weathered, brownish grey, fine grained, fractured rock.									
	8.00m		100	>100			SPT-5	8.00-8.12 8.00	
			12.0 cm Pentn.				R1	CR=21% RQD=Nil	
			NX rotary drilling from 8.00m to 16.00m						9.00
								R2	CR=25% RQD=Nil
10.00m								10.00	
Highly weathered, brownish grey, fine grained, fractured rock.							R3	CR=27% RQD=Nil	
							R4	CR=27% RQD=Nil	
12.00m								12.00	
Highly weathered, brownish grey, fine grained, fractured rock.							R5	CR=22% RQD=Nil	
	12.75m								

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh. **CETEST**

Job No : 4607 Created by : SKD Created on : 29/11/2022 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. CHST3(M)

Co-ordinates E=-1168
N=-1839

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 16/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 208.123 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES			
		EACH DIVN. = 15cm						Ref. No	Depth (m)		
Highly weathered, brownish grey, fine grained, fractured rock.	↘	12.75m								13.00	
										R6	CR=28% RQD=Nil
										R7	CR=38% RQD=Nil
										R8	CR=35% RQD=Nil
		16.00m							16.00		

BORE LOG DATA SHEET BORE HOLE NO. **CHST3(R1)**

Field Test	Nos	Samples	Nos	Commencement Date : 20/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 21/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Hard, reddish brown, clayey silt with moorum.							DS-1	0.50
		10	14	21	<u>35</u>		SPT-1	1.00-1.45
2.25m							DS-2	2.00
		8	11	15	<u>26</u>		SPT-2	2.50-2.95
							DS-3	3.50
		7	15	21	<u>36</u>		SPT-3	4.00-4.45
Very stiff to hard, yellowish brown to grey, clayey silt with decomposed rock fragments.							DS-4	5.00
		11	18	27	<u>45</u>		SPT-4	5.50-5.95
							DS-5	6.50
		10	28	38	<u>66</u>		SPT-5	7.00-7.45
9.00m							DS-6	8.00
		3	1	0	<u>>100</u>		SPT-6	8.50-8.71
Highly weathered, brownish grey to light grey, fine to medium grained, fractured rock.		100	6.0 cm Pentr.	Refusal			*SPT-7	9.00-9.04 9.00
			4.0 cm Pentr.				R1	CR=21% RQD=Nil
								10.00
							R2	CR=25% RQD=Nil
								11.00
							R3	CR=20% RQD=Nil
12.75m								12.00
							R4	CR=20% RQD=Nil

NX rotary drilling from 9.00m to 16.00m

BORE LOG DATA SHEET

BORE HOLE NO.

CHST3(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 20/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 21/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Highly weathered, brownish grey to light grey, fine to medium grained, fractured rock.	↘							R5	13.00 ↓ CR=27% RQD=Nil
								R6	14.00 ↓ CR=22% RQD=Nil
15.00m Highly weathered, light grey, medium grained, fractured rock.								R7	15.00 ↓ CR=30% RQD=Nil
16.00m									16.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET BORE HOLE NO. **CHST3(R2)**

Field Test	Nos	Samples	Nos	Commencement Date : 18/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 20/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Hard, yellowish brown, clayey silt with moorum.					38		DS-1	0.50
		11	17	21			SPT-1	1.00-1.45
2.30m					26		DS-2	2.00
		7	12	14			SPT-2	2.50-2.95
4.00m					33		DS-3	3.50
		6	14	19			SPT-3	4.00-4.45
					43		DS-4	5.00
		9	16	27			SPT-4	5.50-5.95
Hard, yellowish brown to yellowish grey, clayey silt with decomposed rock fragments.					52		DS-5	6.50
		11	20	32			SPT-5	7.00-7.45
					>100		DS-6	8.00
		19	34	100			SPT-6	8.50-8.85
9.50m					>100			
		100					SPT-7	9.50-9.60 9.50
Highly weathered, brownish grey, fine grained, fractured rock.							R1	CR=34%/RQD=0%
							R2	CR=22% RQD=Nil
12.00m							R3	CR=24% RQD=Nil
							R4	CR=28% RQD=12%
12.75m								

NX rotary drilling from 9.50m to 16.00m

BORE LOG DATA SHEET

BORE HOLE NO.

CHST3(R2)

Field Test	Nos	Samples	Nos	Commencement Date : 18/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 20/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Highly to moderately weahered, brownish grey, fine grained, fractured rock.	↘							R5	13.00 CR=33% RQD=Nil
								R6	14.00 CR=46% RQD=11%
15.00m Moderately weathered, brownish grey, fine grained, fractured rock.								R7	15.00 CR=55% RQD=Nil
16.00m									16.00

BORE LOG DATA SHEET BORE HOLE NO. CHST4(M) Co-ordinates E=-948 N=-1859

Field Test	Nos	Samples	Nos	Commencement Date : 13/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	1	Completion Date : 14/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 210.258 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
Hard, reddish brown, clayey silt with moorum.				31		DS-1	0.50
		10	12	19		SPT-1	1.00-1.45
						DS-2	2.00
						*UDS-1	3.80-3.90
2.50m				46			
Hard, reddish brown to yellowish brown, silty clay. Observed steel grey patches.		13	19	27		SPT-2	2.50-2.95
						DS-3	3.50
						SPT-3	4.50-4.95
						DS-4	5.50
				64			
		14	25	39		SPT-3	4.50-4.95
						DS-4	5.50
						SPT-4	6.00-6.45
						DS-5	7.00
				66			
7.50m		15	26	40		SPT-4	6.00-6.45
		100			>100	DS-5	7.00
					13.0 cm Pentn.	SPT-5	7.20-7.33
					100 Refusa.	*SPT-6	7.50-7.52 7.50
				2.0 cm Pentn.			
NX rotary drilling from 7.50m to 16.00m						R1	CR=15% RQD=Nil
						*SPT-7	8.50-8.54 8.50
						R2	CR=20% RQD=Nil
						*SPT-7	8.50-8.54 8.50
				100			
Completely weathered, pinkish grey to whitish grey, fine grained, fractured / decomposed & disintegrated rock.					>100	SPT-8	9.50-9.58 9.50
					8.0 cm Pentn.	R3	CR=14% RQD=Nil
						SPT-9	10.50-10.60 10.50
						R4	CR=18% RQD=Nil
				100			
					>100	SPT-9	10.50-10.60 10.50
					10.0 cm Pentn.	R4	CR=18% RQD=Nil
						*SPT-10	11.50-11.54 11.50
						R5	CR=17% RQD=Nil
				100			
12.75m					>100	SPT-11	12.50-12.58 12.50
					8.0 cm Pentn.		

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh. **CETEST**

Job No : 4607 Created by : SKD Created on : 29/11/2022 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST4(M) Co-ordinates E=-948 N=-1859

Field Test	Nos	Samples	Nos	Commencement Date : 13/11/2022
Penetrometer (SPT)	12	Undisturbed (UDS)	1	Completion Date : 14/11/2022
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 210.258 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Completely weathered, pinkish grey to whitish grey, fine grained, fractured / decomposed & disintegrated rock.	↘						R6	CR=15% RQD=Nil
		100	2.0	cm	Pentn.		*SPT-12	13.50-13.52
							R7	CR=29% RQD=Nil
							R8	CR=47% RQD=20%
Highly to moderately weathered, blackish grey to greyish black fine grained, fractured rock.							R9	CR=44%/RQD=44%
								16.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO.

CHST4(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	0	Completion Date : 15/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES			
		EACH DIVN. = 15cm					Ref. No	Depth (m)		
0.00m Hard, reddish brown, clayey silt with moorum.						33	SPT-1	0.50-0.95		
		11	14	19					DS-1	1.50
		2.70m		10	17	23		40	SPT-2	2.00-2.45
									DS-2	3.00
7.50m Hard, reddish brown to yellowish brown, silty clay. Observed steel grey patches.		9	14	20		34	SPT-3	3.50-3.95		
							DS-3	4.50		
		7	11	24		35	SPT-4	5.00-5.45		
							DS-4	6.00		
7.50m Completely/highly weathered, yellowish brown to reddish brown, medium grained, fractured rock.		20	37	50		>100	SPT-5	6.50-6.85		
							DS-5	7.20		
		100	NX rotary drilling from 7.50m to 16.00m					*SPT-6	7.50-7.52 7.50	
							R1	CR=14% RQD=Nil	↓ 8.50	
12.75m		100	Refusa.					R2	CR=12% RQD=Nil	↓
							*SPT-7	9.50-9.53 9.50		
		100	Refusa.					R3	CR=16% RQD=Nil	↓ 10.50
							R4	CR=16% RQD=Nil	↓	
12.75m		100	Refusa.					*SPT-8	11.50-11.52 11.50	
							R5	CR=27% RQD=Nil	↓ 12.50	

Job No : 4607

Created by : SKD

Created on : 29/11/2022

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.

CHST4(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 14/11/2022
Penetrometer (SPT)	8	Undisturbed (UDS)	0	Completion Date : 15/11/2022
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely/highly weathered, yellowish brown to reddish brown, medium grained, fractured rock.								R6	CR=20% RQD=11%
13.50m								R7	CR=24% RQD=18%
Highly weathered, blackish grey to greyish black, fine grained, fractured rock.								R8	CR=21% RQD=Nil
	16.00m							R9	CR=26%/RQD=22%

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO.

CHST4(R2)

Field Test	Nos	Samples	Nos	Commencement Date : 15/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 17/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m							DS-1	0.50
Hard, reddish brown, silty clay / clayey silt with moorum.		10	13	19	32		SPT-1	1.00-1.45
		12	19	26	45		DS-2	2.00
3.00m							SPT-2	2.50-2.95
Hard, reddish brown to yellowish brown, silty clay with decomposed rock fragments.		9	14	22	36		DS-3	3.50
		14	25	39	64		SPT-3	4.00-4.45
		26	37	50	>100		DS-4	5.00
7.50m		100					SPT-4	5.50-5.95
Completely to highly weathered, brownish grey to grey, fine grained, fractured rock.							DS-5	6.50
							SPT-5	7.00-7.35
							*SPT-6	7.50-7.53 7.50
							R1	CR=12% RQD=Nil
							R2	CR=16% RQD=Nil
								8.50
							*SPT-7	9.50-9.53 9.50
							R3	CR=16% RQD=Nil
							R4	CR=22% RQD=Nil
							R5	CR=19% RQD=Nil
12.75m								10.50
								11.50
								12.50

NX rotary drilling from 7.50m to 16.00m

BORE LOG DATA SHEET BORE HOLE NO. **CHST4(R2)**

Field Test	Nos	Samples	Nos	Commencement Date : 15/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 17/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
12.75m Completely to highly weathered, brownish grey to grey, fine grained, fractured rock.	↘							R6	CR=15% RQD=Nil 13.50
14.50m								R7	CR=25% RQD=14% 14.50
Highly/moderately weathered, brownish grey to grey, fine grained, fractured rock.								R8	CR=50% RQD=19% 15.50
16.00m								R9	CR=32%/RQD=24% 16.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO. CHST5(M)

Co-ordinates E=-1058
N=-2145

Field Test	Nos	Samples	Nos	Commencement Date : 18/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 19/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 207.991 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m									
Very stiff, reddish brown, clayey silt with moorum.							DS-1	0.50	
		9	11	18	29		SPT-1	1.00-1.45	
							DS-2	2.00	
		9	12	15	27		SPT-2	2.50-2.95	
							UDS-1	3.50-3.95	
3.10m							DS-3	4.50	
Hard, yellowish brown, clayey silt with decomposed rock fragments.		10	12	21	33		SPT-3	5.00-5.45	
							DS-4	6.00	
		7	12	19	31		SPT-4	6.50-6.95	
							DS-5	7.50	
		11	15	22	37		SPT-5	8.00-8.45	
9.00m									
Highly/moderately weahered, blackish grey, fine grained, fractured rock.		100	Refusal				*SPT-6	9.00-9.02 9.00	
		2.0 cm Pentn.						R1	CR=43% RQD=Nil
		NX rotary drilling from 9.00m to 16.00m						R2	CR=44% RQD=16%
								R3	CR=41% RQD=15%
								R4	CR=32% RQD=Nil
12.75m									

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh. **CETEST**

Job No : 4607 Created by : SKD Created on : 30/11/2022 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST5(M) Co-ordinates E=-1058 N=-2145

Field Test	Nos	Samples	Nos	Commencement Date : 18/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 19/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	5	Level Of Ground : 207.991 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES			
		EACH DIVN. = 15cm						Ref. No	Depth (m)		
Highly/moderately weahered, blackish grey, fine grained, fractured rock.	↘							R5	12.75m	13.00	CR=40% RQD=Nil
									14.00	R6	CR=49% RQD=Nil
									15.00	R7	CR=40% RQD=Nil
									16.00m		

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO.

CHST5(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 20/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 21/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Very stiff, reddish brown, clayey silt.					26		DS-1	0.50
		10	12	14			SPT-1	1.00-1.45
					30		DS-2	2.00
		9	11	19			SPT-2	2.50-2.95
	3.00m				28		DS-3	3.50
Very stiff / hard, reddish brown, clayey silt / silty clay with rock particles.		11	15	13			SPT-3	4.00-4.45
					35		DS-4	5.00
		8	15	20			SPT-4	5.50-5.95
					22		DS-5	6.50
		12	10	12			SPT-5	7.00-7.45
9.00m					38		DS-6	8.00
		15	17	21	Refusal		SPT-6	8.50-8.95
		100					SPT-7	9.00-9.03 9.00
Highly weathered, blackish grey, fine grained, fractured rock.					3.0 cm Pentn.		R1	CR=23% RQD=Nil
					NX rotary drilling from 9.00m to 16.00m			10.00
11.00m							R2	CR=25% RQD=Nil
								11.00
Highly weathered, blackish grey, fine grained, fractured rock.							R3	CR=28% RQD=Nil
								12.00
12.75m							R4	CR=29% RQD=Nil

Project : Geotechnical Investigation For Lara STPP, Stage II, Chhattisgarh. **CETEST**

Job No : 4607 Created by : SKD Created on : 30/11/2022 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. **CHST5(R1)**

Field Test	Nos	Samples	Nos	Commencement Date : 20/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 21/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES			
		EACH DIVN. = 15cm						Ref. No	Depth (m)		
Highly weathered, blackish grey, fine grained, fractured rock.	↘							R5	12.75m	13.00	CR=30% RQD=Nil
										14.00	CR=33% RQD=Nil
										15.00	CR=30% RQD=Nil
									16.00m	16.00	CR=30% RQD=Nil

BORE LOG DATA SHEET

BORE HOLE NO.

CHST5(R2)

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 21/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m									
Very stiff to hard, reddish brown, clayey silt with traces of moorum.							DS-1	0.50	
		8	11	16	<u>27</u>		SPT-1	1.00-1.45	
							DS-2	2.00	
		10	13	18	<u>31</u>		SPT-2	2.50-2.95	
							DS-3	3.50	
		12	14	20	<u>34</u>		SPT-3	4.00-4.45	
		9	11	18	<u>29</u>		SPT-4	5.50-5.95	
Hard, yellowish brown, clayey silt with decomposed rock particles.							DS-5	6.50	
		10	13	19	<u>32</u>		SPT-5	7.00-7.45	
							DS-6	8.00	
		11	15	18	<u>33</u>		SPT-6	8.50-8.95	
							DS-7	9.50	
		100	Refusal					*SPT-7	10.00-10.0310.00
		3.0 cm Pentn.						R1	CR=28% RQD=Nil
Highly weathered, greyish black, fine grained, fractured rock.	NX rotary drilling from 10.00m to 16.00m						R2	CR=27% RQD=Nil	
							R3	CR=27% RQD=Nil	
	12.75m								

BORE LOG DATA SHEET BORE HOLE NO. **CHST5(R2)**

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 21/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Highly weathered, greyish black, fine grained, fractured rock.	↘							R4	12.75m	13.00
										CR=30% RQD=Nil
										14.00
										CR=30% RQD=Nil
										15.00
										CR=38% RQD=32%
	16.00m	16.00								

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO.PMT-1

Co-ordinates E=-1067
N=-1569

Field Test	Nos	Samples	Nos	Commencement Date : 28/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	0	Completion Date : 28/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 207.871 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 5.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15CM.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Very stiff, reddish brown, clayey silt with moorum.		11	13	16			29	SPT-1	1.00-1.45
		10	12	15			27	SPT-2	2.50-2.95
3.00m								DS-3	3.50
Very stiff to hard, reddish brown, clayey silt.		10	14	17			31	SPT-3	4.00-4.45
		9	13	15			28	SPT-4	5.50-5.95
7.00m								DS-5	6.50
Hard, reddish brown, clayey silt.		12	19	16			35	SPT-5	7.20-7.65
		11	15	22			37	SPT-6	8.50-8.95
		8	19	21			40	SPT-7	10.20-10.65
		11	19	23			42	SPT-8	11.00-11.45
12.00m		13	18	20			38	SPT-9	12.00-12.45

BORE LOG DATA SHEET | **BORE HOLE NO.PMT-2** | Co-ordinates E=-1089 N=-1697

Field Test	Nos	Samples	Nos	Commencement Date : 26/11/2022
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 26/11/2022
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 207.165 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.40 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15CM.						Ref. No	Depth (m)
0.00m									
Very stiff, reddish brown, clayey silt with moorum.								DS-1	0.50
		6	10	8			18	SPT-1	1.00-1.45
								DS-2	2.10
3.00m								SPT-2	2.50-2.95
		7	10	12			22	DS-3	3.50
								SPT-3	4.00-4.45
Very stiff, reddish brown, clayey silt.								DS-4	4.80
		6	9	11			20	SPT-4	5.50-5.95
								SPT-5	7.20-7.65
6.50m								DS-5	6.50
								SPT-6	8.50-8.75
								DS-6	8.00
Hard, reddish brown, clayey silt.								SPT-7	9.00-9.02 9.00
								R1	CR=24% RQD=NIL
								R2	CR=25% RQD=NIL
9.00m								R3	CR=34% RQD=12%
									10.00
									11.00
Highly weathered, grey, medium grained fractured rock.									12.00
12.00m									
N.B. - '*' means sample could not be recovered.									

BORE LOG DATA SHEET | **BORE HOLE NO.PMT-3** | Co-ordinates E=-1099 N=-1781

Field Test	Nos	Samples	Nos	Commencement Date : 26/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	0	Completion Date : 26/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 208.169 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 3.80 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15CM.						Ref. No	Depth (m)
0.00m									
Very stiff, reddish brown, clayey silt with moorum.		10	12	14			26	DS-1	0.50
								SPT-1	1.00-1.45
								DS-2	2.10
2.50m		11	13	19			32	SPT-2	2.50-2.95
								DS-3	3.50
								SPT-3	4.00-4.45
Hard, reddish brown, clayey silt with moorum.		11	14	20			34	DS-4	5.20
								SPT-4	5.50-5.95
								DS-5	6.50
6.00m		10	12	21			33	SPT-5	7.20-7.65
								DS-6	8.00
								SPT-6	8.50-8.95
Hard, reddish brown, clayey silt.		10	12	18			30	DS-7	9.50
								SPT-7	10.20-10.65
								SPT-8	11.00-11.45
12.00m		12	17	18			35	SPT-9	12.00-12.45
								SPT-8	11.00-11.45
								SPT-9	12.00-12.45
		15	20	18			38		

BORE LOG DATA SHEET | **BORE HOLE NO.PMT-4**

Co-ordinates E=-1203
N=-1871

Field Test	Nos	Samples	Nos	Commencement Date : 24/11/2022
Penetrometer (SPT)	10	Undisturbed (UDS)	1	Completion Date : 24/11/2022
Cone (Pc)		Penetrometer (SPT)	10	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 207.024 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15CM.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Very stiff, reddish brown, clayey silt with moorum.								SPT-1	1.50-1.95
	2.00m	6	8	11	19			DS-2	2.50
Very stiff to hard, yellowish brown, clayey silt with decomposed rock.								UDS-1	3.50-3.95
								SPT-2	4.50-4.95
		8	10	13	23			DS-3	5.50
6.50m								SPT-3	6.00-6.08
		100	8.0	cm	Pentn. refusal			*SPT-4	6.50-6.53 6.50
			3.0	cm	Pentn.			R1	CR=14% RQD=NIL
								SPT-5	7.50-7.59 7.50
		100	9.0	cm	Pentn. refusal			R2	CR=18% RQD=NIL
								SPT-6	8.50-8.57 8.50
Completely weathered, yellowish brown, fine grained, rock.		100	7.0	cm	Pentn.			R3	CR=15% RQD=NIL
								SPT-7	9.50-9.60 9.50
		100	10.0	cm	Pentn.			R4	CR=09% RQD=NIL
								SPT-8	10.50-10.58 10.50
		100	8.0	cm	Pentn. refusal			R5	CR=12% RQD=NIL
12.00m		100	7.0	cm	Pentn. refusal			SPT-9	11.50-11.57 11.50
								R6	CR=10% RQD=NIL
N.B. - '*' means sample could not be recovered.		100	6.0	cm	Pentn.			SPT-10	12.00-12.06 12.00



BORE LOG DATA SHEET | **BORE HOLE NO.PMT-6** | Co-ordinates E=-1116 N=-2013

Field Test	Nos	Samples	Nos	Commencement Date : 25/11/2022
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 26/11/2022
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground : 207.11 m.
		Water Sample (WS)	0	Water Struck At :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15CM.						Ref. No	Depth (m)
0.00m									
Very stiff, reddish brown, clayey silt with moorum.						24		DS-1	0.50
		8	11	13				SPT-1	1.00-1.45
								DS-2	2.10
3.00m						21		SPT-2	2.50-2.95
		7	9	12				UDS-1	3.50-3.95
Hard, reddish brown, clayey silt with decomposed rock.						35		SPT-3	4.50-4.95
		9	16	19				DS-3	5.50
								SPT-4	6.00-6.32
6.50m						>100			
		11	42	50				2.0 cm Pentn.	
		100						*SPT-5	6.50-6.52
								refusal	CR=24% RQD=NIL
								2.0 cm Pentn.	7.00
								R1	↓
								R2	CR=22% RQD=NIL
Highly weathered, grey, medium grained, highly fractured rock.									8.00
								R3	CR=23% RQD=11%
								R4	CR=22% RQD=NIL
								R5	CR=22% RQD=NIL
12.00m								R6	CR=29% RQD=NIL
									12.00

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO.PMT-7

Co-ordinates E=-1131
N=-2131

Field Test	Nos	Samples	Nos	Commencement Date : 24/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Completion Date : 25/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 208.340 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.80 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15CM.						Ref. No	Depth (m)
0.00m Very stiff, reddish brown, clayey silt with moorum.								DS-1	0.50
		10	11	13	24			SPT-1	1.00-1.45
		6	12	17	29			SPT-2	3.00-3.45
		9	15	20	35			SPT-3	4.50-4.95
3.90m Hard, reddish brown, clayey silt.		13	19	27	46			DS-4	5.50
		22	39	100	≥100			SPT-5	7.50-7.86
		100	6.0 cm Pentn. refusal					DS-6	8.00
7.00m Hard, reddish brown, clayey silt with decomposed rock.		100	4.0 cm Pentn.					*SPT-6	8.50-8.54
								R1	CR=18% RQD=NIL
								R2	CR=21% RQD=NIL
								R3	CR=24% RQD=NIL
								R4	CR=26% RQD=NIL
8.50m Completely to highly weathered, blackish grey, fine grained fractured rock.									8.50 ↓ 9.00
									10.00 ↓ 11.00
12.00m N.B. - '*' means sample could not be recovered.									11.00 ↓ 12.00

BORE LOG DATA SHEET | BORE HOLE NO.PMT-8

Co-ordinates E=-1010
N=-2279

Field Test	Nos	Samples	Nos	Commencement Date : 28/11/2022
Penetrometer (SPT)	9	Undisturbed (UDS)	0	Completion Date : 28/11/2022
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	7	Level Of Ground : 211.423 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.50 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15CM.					Ref. No	Depth (m)
0.00m								
Very stiff, reddish brown, clayey silt with moorum.		4	7	9	16		DS-1	0.50
							SPT-1	1.00-1.45
2.50m		6	8	11	19		DS-2	2.10
							SPT-2	2.50-2.95
Very stiff to hard, reddish brown, clayey silt.		9	10	14	24		DS-3	3.50
							SPT-3	4.00-4.45
7.00m		13	14	20	34		DS-4	5.10
							SPT-4	5.50-5.95
Hard, reddish brown, clayey silt with decomposed rock particles.		16	21	26	47		DS-5	6.50
							SPT-5	7.20-7.65
12.00m		19	25	32	57		SPT-6	8.50-8.95
							DS-7	9.50
		26	38	100	>100		SPT-7	10.20-10.55
					5.0 cm Pentn.			
		22	37	44	81		SPT-8	11.00-11.45
					>100		SPT-9	12.00-12.25
		32	100		>100			
					10.0 cm Pentn.			

BORE LOG DATA SHEET | **BORE HOLE NO.PMT-10** | Co-ordinates E=-299 N=-2006

Field Test	Nos	Samples	Nos	Commencement Date : 28/11/2022
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Completion Date : 28/11/2022
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	6	Level Of Ground : 202.853 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 9.70 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15CM.						Ref. No	Depth (m)	
Very stiff to hard, reddish brown, silty clay.									0.00m	
								DS-1	0.50	
			11	13	20				SPT-1	1.00-1.45
							33			
			8	11	18			DS-2	2.10	
								SPT-2	2.50-2.95	
							29			
			10	13	18			DS-3	3.50	
								SPT-3	4.00-4.45	
							31			
Highly to moderately weathered, reddish brown, fine grained, fractured rock.							DS-4	5.10		
			13	15	21			SPT-4	5.50-5.95	
							36			
			12	16	19			DS-5	6.50	
								SPT-5	7.20-7.65	
							35			
		100	2.0 cm refusal		Pentn.		SPT-6	7.50-7.52 7.50		
							R1	CR=24% RQD=NIL ↓ 8.50		
							R2	CR=29% RQD=NIL ↓ 9.50		
							R3	CR=27% RQD=NIL ↓ 10.50		
							R4	CR=36% RQD=NIL ↓ 11.50		
							R5	CR=60% RQD=NIL ↓ 12.00		
								12.00m		

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc	%	%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH13	UDS01	2.10	Brownish grey clayey silt.	1.97	1.63	2.69	21 S	0.739	TRSH-UU	1.31	0	47	21			9	59	32	
							21 T		3.0	1.394									
							23 C		2.0	1.331									
									1.0	1.217									
DBH13	SPT03	5.00	Yellowish brown clayey silt.									52	25	15					
DBH13	SPT04	7.00	Brownish grey clayey silt with traces of sand mixture.													12	51	37	
DBH17	SPT01	1.50	Reddish brown clayey silt with moorum, kankars & traces of sand mixture.			3.04									5	68	20	7	
DBH17	UDS03	4.50	Brownish grey clayey silt.	2.01	1.69	2.66	20 S		TRSH-UU	1.06	5	48	20	14		14	66	20	
							19 T		3.0	1.439									
									2.0	1.341									
									1.0	1.252									
DBH17	SPT04	8.80	Brownish grey clayey silt.									52	24						
DBH22	SPT01	1.50	Reddish brown clayey silt/silty clay with moorum.									35	16						
DBH22	SPT02	4.50	Brownish grey clayey silt with traces of sand mixture.													8	56	36	
DBH22	SPT04	7.70	Brownish grey clayey silt.									54	26						
DBH23	SPT01	2.00	Reddish brown silty sand with traces of clay binders & moorum, kankars.			3.04									18	61	18	3	

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Sheet No.

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH23	DS03	3.56	Yellowish brown clayey silt.										49	24	19				
DBH23	SPT02	5.00	Reddish brown clayey silt with traces of decomposed rock dust & sand mixture.														14	86	(Silt+Clay)
DBH29	DS01	0.55	Reddish brown clayey silty sand with moorum & kankars.													28	46	26	(Silt+Clay)
DBH29	SPT02	5.00	Yellowish brown, silty clay with traces of kankars.			2.72											16	58	26
DBH29	SPT03	8.00	Brownish grey clayey silt.										43	24	19				
DBH42	DS01	0.57	Brownish grey silty sand with clay binders traces of kankars.			2.93											71	23	6
DBH42	SPT01	2.00	Reddish brown clayey silty sand with kankars.													12	80	8	(Silt+Clay)
DBH42	SPT02	5.00	Brownish grey clayey silt with decomposed rock fragments & traces of sand mixture.			2.66										40	12	33	15
DBH43	SPT01	0.65	Reddish brown clayey silt with traces of kankars.										42	21	16				
DBH43	SPT02	2.00	Brownish grey silty clay / clayey silt with traces of sand mixture.			2.74											5	70	25
DBH43	SPT03	5.00	Brownish grey clayey silt.										43	24					

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Sheet No.

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH44	SPT01	1.50	Reddish brown clayey moorum with kankars.													37	40	23	(Silt+Clay)
DBH44	SPT02	4.50	Brownish grey clayey silt with decomposed rock fragments & traces of kankars & mica.			2.99										22	28	33	17
DBH44	SPT04	7.50	Yellowish grey clayey silt.										43	17					
DBH44	SPT05	9.00	Brownish grey clayey silt with traces of fine sand mixture.														19	81	(Silt+Clay)
DBH45	SPT01	0.67	Reddish brown clayey silt with morrum, kankars & traces of sand mixture.			3.06										25	49	20	6
DBH45	SPT03	5.00	Brownish grey clayey silt.										42	20	16				
DBH45	SPT04	6.50	Reddish brown clayey silt with traces of sand mixture & kankars.														10	90	(Silt+Clay)
DBH49	SPT01	1.50	Reddish brown clayey silt with sand mixture, kankars & decomposed rock fragments.			2.62										13	41	41	5
DBH49	DS04	3.62	Yellowish grey clayey silt.										40	18					
DBH49	SPT02	5.00	Yellowish grey clayey silt with traces of sand mixture.			2.71											6	65	29

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Project: Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.



Sheet No.

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH50	DS02	1.50	Reddish brown clayey silt with sand mixture.			2.76											45	50	5
DBH50	UDS02	3.50	Yellowish grey silty clay with decomposed rock dust.	1.93	1.58	2.61	21 S	0.612	TRSH-UU		1.02	7	44	26	19		21	55	24
							22 T		3.0	1.588									
							22 C		2.0	1.417									
									1.0	1.306									
									UNCONFD		1.30	0							
									0.0	1.333									
									0.0	1.315									
									0.0	1.265									
									REMOULD		1.10	0							
									0.0	1.168									
									0.0	1.116									
									0.0	1.016									
DBH50	SPT02	5.00	Whitish grey clayey silt.										44	26					
DBH51	DS01	0.63	Reddish brown clayey silty sand with clay binders with moorum.			2.86											72	24	4
DBH51	SPT01	2.00	Brownish grey clayey silt.										38	19					
DBH51	SPT03	6.50	Brownish grey clayey silt with sand mixture.														21	79 (Silt+Clay)	
DBH52	UDS01	0.50	Brownish grey clayey moorum.	2.17	1.84		15 S	0.622								14	69	15	2
							15 C												
DBH52	UDS02	3.50	Yellowish grey silty clay/ clayey silt with rock pieces.	1.94	1.51		27 S		TRSH-UU		1.07	0	43	23	18				
							29 T		3.0	1.120									
									2.0	1.098									
									1.0	1.002									

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CETEST

Sheet No.

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Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH52	SPT05	9.00	Brownish grey clayey silt with traces of sand mixture.														6	65	29
DBH55	DS01	0.60	Reddish brown clayey silt with moorum & kankars.													19	72	9 (Silt+Clay)	
DBH55	SPT01	2.00	Brownish grey clayey silt with sand mixture & traces of rock dust & mica.			2.77											30	51	19
DBH55	SPT02	5.00	Yellowish grey clayey silt with traces of rock pieces.										41	20					
DBH56	DS01	0.55	Reddish brown clayey morrum & kankars.										38	24					
DBH56	SPT01	2.00	Brownish grey clayey silt with sand mixture & kankars.			2.84											21	50	29
DBH56	SPT02	5.00	Brownish grey clayey silt.										42	18					
DBH57	SPT01	1.50	Brownish grey clayey silt with moorum, kanakrs & sand mixture.			2.76										6	43	30	21
DBH57	UDS02	3.50	Yellowish grey silty clay/clayey silt with kankars.	2.07	1.75		20 S 18 T			TRSH-UU 3.0 2.0 1.0	1.616 1.468 1.352	1.08	7	43	23		24	53	23
DBH57	SPT04	8.00	Brownish grey clayey silt.										42	19					
DBH58	DS02	1.50	Greyish brown clayey moorum with kankars.													11	75	14 (Silt+Clay)	

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Sheet No.

Project: Geotechnical Investigation for Larra STPP, Stage II, Chhattisgarh.



Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	
DBH58	UDS02	3.50	Yellowish grey silty clay with traces of rock pieces.	2.10	1.75	2.95	20 S		TRSH-UU	0.91	7	40	22	16		3	67	30	
							20 T		3.0	1.441									
									2.0	1.303									
									1.0	1.165									
									UNCONFD	1.13	0								
									0.0	1.189									
									0.0	1.116									
									0.0	1.083									
									REMOULD	0.77	0								
									0.0	0.842									
								0.0	0.759										
								0.0	0.703										
DBH58	SPT03	7.00	Brownish grey clayey silt with decomposed rock dust & sand mixture.													17	83 (Silt+Clay)		
DBH59	DS02	1.50	Brownish grey clayey morrum & kanakrs.												28	60	12 (Silt+Clay)		
DBH59	UDS02	3.50	Yellowish grey silty clay with traces of decomposed rock fragments.	1.94	1.64	2.70	19 S		TRSH-UU	1.12	9	46	23	16		11	67	22	
							18 T		3.0	1.827									
									2.0	1.693									
									1.0	1.473									
									UNCONFD	1.61	0								
									0.0	1.608									
									0.0	1.608									
									0.0	1.608									
									REMOULD	1.32	0								
									0.0	1.318									
								0.0	1.318										
								0.0	1.318										
DBH59	SPT02	5.00	Yellowish grey clayey silt with traces of decomposed rock dust & sand mixture.			2.60										24	54	22	
DBH62	UDS01	0.50	Greyish brown clayey moorum with kankars & sand mixture.	2.04	1.77	2.89	18 S	0.713	TRSH-UU	1.38	0					64	26	10	
							15 T		3.0	1.414									
							22 C		2.0	1.367									
									1.0	1.363									

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH62	SPT01	2.00	Reddish grey clayey morrum with kankars & sand mixture.													15	64	21	(Silt+Clay)
DBH62	SPT02	5.00	Brownish grey clayey silt.										43	24					
DBH63	SPT01	1.50	Reddish brown clayey silt.										42	20					
DBH63	UDS02	2.00	Yellowish grey silty clay.	2.11	1.79	2.75	22 S	0.485	TRSH-UU	0.84	5	41	21			5	62	33	
							18 T		3.0	1.219									
							18 C		2.0	1.080									
									1.0	1.030									
DBH63	SPT06	9.00	Brownish grey clayey silt with traces of sand mixture.													13	52	35	
DBH64	UDS01	0.50	Reddish brown clayey morrum.	2.08	1.80	2.89	15 S		UNCONFED	0.39	0	50	24		31	42	20	7	
									0.0	0.351									
									0.0	0.395									
									0.0	0.435									
									REMOULD	0.24	0								
									0.0	0.215									
									0.0	0.242									
									0.0	0.264									
DBH64	UDS02	3.50	Yellowish brown, silty clay with kankars.	1.99	1.64	2.73	21 S		TRSH-UU	1.34	0	46	24	18		18	56	26	
							21 T		3.0	1.356									
									2.0	1.342									
									1.0	1.327									
DBH64	SPT05	8.50	Yellowish brown clayey silt.									41	19						
DBH65	UDS01	0.50	Brownish grey clayey silt with traces of sand mixture.	2.00	1.69	2.78	16 S		TRSH-UU	0.91	0	32	18	14		14	72	14	
							18 T		3.0	0.934									
									2.0	0.913									
									1.0	0.891									

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Sheet No.

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void Ratio	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %		Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH65	UDS02	3.50	Reddish yellow silty clay with traces of rock pieces.	1.94	1.60	2.62	22 S		UNCONFD	1.22	0	50	24			16	63	21	
									0.0	0.966									
									0.0	1.341									
									0.0	1.341									
									REMOULD	0.99	0								
									0.0	0.784									
									0.0	1.087									
									0.0	1.087									
DBH65	SPT02	5.00	Brownish grey clayey silt with sand mixture traces of rock dust rock pieces.												15	19	66 (Silt+Clay)		
DBH66	UDS01	0.50	Reddish brown clayey morrum.	2.01	1.72	2.93	17 S		UNCONFD	0.90	0	52	24	16	12	46	30	12	
									0.0	0.924									
									0.0	0.873									
									0.0	0.902									
									REMOULD	0.68	0								
									0.0	0.721									
									0.0	0.632									
									0.0	0.692									
DBH66	UDS02	3.50	Yellowish grey silty clay with traces of decomposed rock pieces.	2.11	1.80	2.71	17 S 17 T 16 C	0.513	TRSH-UU	1.57	0	40	21			10	65	25	
									3.0	1.589									
									2.0	1.568									
									1.0	1.548									
DBH66	SPT03	6.58	Reddish brown clayey silt with traces of rock pices.									55	21						
DBH67	DS01	0.59	Reddish brown clayey silt with morrum, kankars & sand.												7	75	18 (Silt+Clay)		
DBH67	SPT01	2.00	Brownish grey clayey silt.									41	20						
DBH67	SPT02	5.00	Brownish grey clayey silt with traces of sand mixture & mica.			2.63										14	56	30	

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH68	SPT01	1.50	Reddish brown clayey silt with sand, rock fragments & kankar.			2.75											52	32	16
DBH68	SPT02	3.60	Brownish grey clayey silt.										52	26					
DBH68	SPT03	5.00	Brownish grey clayey silt with traces of sand mixture.			2.77											18	55	27
DBH69	SPT01	1.00	Reddish brown clayey silt/silty clay with moorum.										35	18					
DBH69	UDS01	2.50	Yellowish grey silty clay/clayey silt with traces of steel grey spots.	2.12	1.82		16 S 17 T 15 C	0.460	TRSH-UU 3.0 2.0 1.0	1.410 1.350 1.290	1.35	0	41	21	15		2	72	26
DBH70	SPT01	1.50	Reddish brown clayey silt.										53	24					
DBH70	UDS02	3.20	Reddish yellow silty clay with traces of rusty spots.	1.86	1.48	2.61	27 S 26 T 26 C	0.648	TRSH-UU 3.0 2.0 1.0	1.696 1.679 1.658	1.68	0	53	25	19		8	60	32
									UNCONFD	1.57	0								
									0.0	1.737									
									0.0	1.490									
									0.0	1.490									
									REMOULD	1.32	0								
									0.0	1.464									
									0.0	1.247									
									0.0	1.247									
DBH70	SPT02	4.00	Brownish grey clayey silt with sand mixture & traces of rock fragments &													5	38	57 (Silt+Clay)	

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Sheet No.

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH71	UDS02	3.50	Reddish brown silty clay with steel grey patches.	1.96	1.58		25 S	0.637	TRSH-UU	1.05	0	51	23						
							24 T		3.0	1.100									
							23 C		2.0	1.030									
									1.0	1.010									
DBH71	SPT04	6.50	Greyish brown clayey silt.									54	24						
DBH72	SPT01	2.00	Brownish grey clayey silt with traces of sand mixture.			2.75										20	59	21	
DBH72	UDS02	3.50	Yellowish grey silty clay with rock pieces.	1.98	1.58		27 S		TRSH-UU	0.84	5	50	22	14					
							25 T		3.0	1.208									
									2.0	1.119									
									1.0	1.014									
DBH73	SPT02	2.50	Reddish brown clayey silt with moorum, kankars & traces of sand mixture.												10	59	21	10	
DBH73	UDS02	3.50	Reddish brown clayey silt with traces of kankar & sand mixture.	2.03	1.65		22 S		UNCONFD	0.92	0	46	22	16		11	62	27	
							23 T		0.0	0.904									
									0.0	0.968									
									0.0	0.900									
									REMOULD	0.77	0								
									0.0	0.800									
									0.0	0.769									
									0.0	0.729									
DBH73	SPT04	6.70	Reddish brown clayey silt.									54	25						
DBH74	SPT01	2.00	Brownish grey clayey silt with sand mixture & decomposed rock dust.			2.79										35	40	25	
DBH75	UDS01	0.50	Brownish grey silty clay with traces of kankars.	2.02	1.72		18 S									24	54	22	

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Sheet No.

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %	Ratio	Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH75	SPT03	4.00	Reddish brown clayey silt.										46	19	14				
DBH76	UDS01	0.50	Brownish grey silty clay/ clayey silt.	1.98	1.65		19 S			UNCONFD		1.37	0	37	19				
										0.0	1.391								
										0.0	1.358								
										0.0	1.358								
										REMOULD		1.12	0						
										0.0	1.141								
										0.0	1.113								
										0.0	1.110								
DBH76	SPT01	1.50	Yellowish brown clayey silt.										36	19					
DBH76	SPT03	4.50	Brownish grey clayey silt with traces of sand mixture & decomposed rock dust.			2.80											11	52	37
DBH77	UDS02	2.50	Yellowish brown clayey silt with traces of sand mixture.	2.00	1.65	2.68	20 S 21 T 20 C	0.694		UNCONFD		1.03	0	49	19		12	58	30
										0.0	1.070								
										0.0	0.997								
										0.0	1.007								
										REMOULD		0.81	0						
										0.0	0.822								
										0.0	0.789								
										0.0	0.818								
DBH77	UDS03	5.50	Yellowish brown clayey silt with traces of sand mixture.	2.08	1.75		19 S 19 T			TRSH-UU		1.22	7	42	21	15	17	61	22
										3.0	1.794								
										2.0	1.641								
										1.0	1.517								
DBH78	SPT01	1.00	Brownish grey silty sand with rock dust rock pieces traces of kankars.										Non plastic			63	29	8 (Silt+Clay)	
DBH78	UDS02	3.50	Reddish brown silty clay with yellowish patches traces of kankars.	1.94	1.57		24 S 24 T 25 C	0.662		TRSH-UU		1.10	8	55	25	19			
										3.0	1.740								
										2.0	1.578								
										1.0	1.421								

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Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %	Ratio	Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH78	SPT05	8.00	Brownish grey clayey silt with traces of sand mixture.														6	57	37
DBH79	SPT01	2.00	Reddish brown clayey silt with kankars.									42	21						
DBH79	SPT02	5.00	Brownish grey clayey silt with traces of sand mixture.			2.74											4	61	35
DBH79	DS08	7.50	Reddish brown clayey silt/silty clay.									58	22						
DBH80	SPT01	2.00	Reddish brown clayey morrum with kankars.			2.73										10	62	21	7
DBH80	UDS02	3.50	Reddish brown silty clay with traces of kankars & steel grey patches.	2.16	1.76	2.63	24 S 23 T 24 C	0.604	TRSH-UU 3.0 2.0 1.0	0.86 1.445 1.313 1.134	8	58	26				31	49	20
DBH80	SPT04	8.00	Reddish brown clayey silt/silty clay.									54	25						
DBH81	SPT01	1.00	Reddish brown clayey silt.									54	24						
DBH81	UDS02	3.50	Reddish brown silty clay with traces of kankars.	1.91	1.48		27 S 29 T 29 C	0.784	TRSH-UU 3.0 2.0 1.0	0.53 0.548 0.529 0.513	0					12	7	51	30
DBH81	SPT04	6.50	Brownish grey clayey silt with traces of sand mixture.														6	52	42

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Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void Ratio	Strength Test Results				Atter. Limits			Grain Size				
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %		Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %	
DBH82	UDS01	0.50	Yellowish brown clayey silt with traces of sand mixture.	1.92	1.55		24 S						37	19						
DBH82	UDS02	3.50	Yellowish brown clayey silt with traces of sand mixture.	2.04	1.73	2.81	17 S 18 T			TRSH-UU 3.0 2.0 1.0	1.309 1.216 1.117	0.94	5			12	19	54	15	
DBH82	SPT03	6.60	Brownish grey clayey silt.										47	24						
DBH83	UDS01	0.50	Reddish brown clayey moorum with kankars & decomposed rock fraements.	2.12	1.83	2.59	16 S									55	34	9	2	
DBH83	UDS02	3.50	Reddish brown silty clay.	1.95	1.63	2.70	20 S 20 T 22 C	0.624		TRSH-UU 3.0 2.0 1.0	1.183 1.163 1.138	1.16	0	53	25		3	60	37	
DBH83	SPT03	6.70	Brownish grey clayey silt with decomposed rock.													21	9	70 (Silt+Clay)		
DBH84	UDS02	2.50	Reddish brown clayey silt / silty clay with traces of kankars.	1.92	1.53		26 S 26 T 28 C	0.802		TRSH-UU 3.0 2.0 1.0	1.059 1.002 0.964	1.01	0	55	24	21				
DBH84	SPT03	5.50	Brownish grey clayey silt.			2.68											4	64	32	
DBH84	SPT05	8.50	Reddish brown clayey silt/ silty clay.										62	26						
DBH85	SPT01	1.00	Reddish brown clayey silt/ clayey silt with traces of morrum.										38	19						

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %	Ratio	Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH85	UDS03	4.50	Reddish brown clayey silt / silty clay with traces of kankar & sand mixture.	1.99	1.64	2.63	21 S 21 T 19 C	0.547	TRSH-UU 3.0 2.0 1.0	1.43	1.502 1.425 1.349	0	48	20	13		15	58	27
DBH85	SPT03	6.00	Brownish grey clayey silt with sand, decomposed rock dust & rock pieces													17	30	53 (Silt+Clay)	
DBH86	UDS01	0.50	Reddish brown clayey silt with moorum.													23	25	43	9
DBH86	UDS02	3.50	Reddish brown clayey moorum.	2.24	1.98		14 S 13 T		TRSH-UU 3.0 2.0 1.0	0.61	1.817 1.417 1.150	15	48	23					
DBH86	SPT02	5.00	Brownish grey clayey silt with traces of fine sand mixture.														4	54	42
DBH86	UDS03	6.50	Reddish brown silty clay with traces of yellowish spots.	1.96	1.61		22 S		UNCONFD 0.0 0.0 0.0 REMOULD 0.0 0.0 0.0	1.77	1.807 1.758 1.751 1.448 1.289 1.318	0			20				
DBH87	SPT01	1.00	Reddish brown with decomposed rock dust & rock pieces.													59	34	7 (Silt+Clay)	
DBH87	SPT03	4.00	Greyish brown clayey silt.										54	24					
DBH87	SPT05	7.50	Yellowish grey clayey silt with sand mixture.														12	88 (Silt+Clay)	

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void Ratio	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.		Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc	%	%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH88	UDS02	2.50	Reddish brown clayey silt / silty clay with traces of kankars.	2.00	1.63	2.80	23 S 23 T		TRSH-UU	1.72	7						5	65	30
										3.0	2.394								
										2.0	2.283								
										1.0	2.097								
DBH88	UDS03	5.50	Reddish brown silty clay with yellowish patches.	1.91	1.53		25 S		UNCONFD	1.49	0	49	20	16					
										0.0	1.490								
										0.0	1.494								
										0.0	1.498								
										REMOULD	1.22	0							
										0.0	1.210								
										0.0	1.218								
										0.0	1.230								
DBH89	UDS01	0.50	Reddish brown clayey silt with sand mixture.	1.90	1.57		21 S									23	56	21	
DBH89	UDS02	3.50	Yellowish brown clayey silt with traces of sand mixture.	1.99	1.67		19 S 19 T		TRSH-UU	1.37	0	38	20	13					
										3.0	1.399								
										2.0	1.376								
										1.0	1.332								
DBH89	SPT02	3.00	Brownish grey clayey silt with traces of fine sand mixture.													4	60	36	
DBH90	UDS01	0.50	Brownish grey clayey silt with traces of kankars & sand mixture.	1.90	1.53		25 S		UNCONFD	0.33	0	32	18						
										0.0	0.315								
										0.0	0.331								
										0.0	0.342								
										REMOULD	0.18	0							
										0.0	0.165								
										0.0	0.184								
										0.0	0.193								
DBH90	SPT01	2.00	Brownish grey clayey silt with sand mixture, rock pieces & rock dust.			2.71										45	27	20	8
DBH91	SPT01	1.00	Reddish brown silty sand with morrum & kankars.													57	31	12 (Silt+Clay)	

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void Ratio	Strength Test Results				Atter. Limits			Grain Size				
				Dens.	Dens.	Grav.	Mois.		Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay	
				gms/cc	gms/cc		%					%	%	%	%	%	%	%		
DBH91	SPT02	3.00	Brownish grey clayey silt with red spots, sand mixture & rock pieces.										36	19						
DBH91	SPT04	6.00	Light grey clayey silt with sand mixture.														17	83 (Silt+Clay)		
DBH92	SPT01	1.00	Brownish grey clayey silt with sand mixture.														47	37	16	
DBH92	SPT02	3.00	Brownish grey clayey silt with red spots & sand mixture.										37	20	16					
DBH92	SPT03	4.50	Brownish grey clayey silt with traces of sand mixture.				2.76										13	55	32	
DBH92	SPT06	9.00	Yellowish brown clayey silt .										36	19						
DBH92	SPT09	13.50	Light grey clayey silt with sand mixture.														19	81 (Silt+Clay)		
DBH93	UDS01	0.50	Brownish grey clayey silt with traces of moorum & sand mixture.	2.02	1.67		21 S						33	19						
									UNCONFD		0.97	0								
									0.0	0.997										
									0.0	0.961										
									0.0	0.950										
									REMOULD		0.64	0								
									0.0	0.680										
									0.0	0.641										
									0.0	0.600										
DBH93	SPT01	2.00	Brownish grey clayey silt with sand mixture & kankars.				2.75										27	59	14	

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Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %	Ratio	Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH93	SPT02	4.00	Reddish brown clayey silt.										31	20					
DBH95	UDS01	0.50	Reddish brown clayey moorum.	1.99	1.68	2.68	17 S 19 T												
DBH95	SPT03	5.50	Reddish brown silty clay with traces of moorum.										45	19	18				
DBH95	SPT05	8.50	Reddish brown clayey silt with sand mixture, kankars & morrum.			2.63											27	47	26
DBH95	SPT09	14.00	Reddish brown clayey silt.										49	23					
DBH97	UDS01	0.50	Reddish brown clayey silt with moorum.	2.01	1.72		17 S						35	17					
DBH97	SPT02	3.00	Brownish grey clayey silt with sand & rock pieces.			2.79										11	45	36	8
DBH97	SPT03	4.50	Light brownish grey clayey silt.										33	18					
DBH97	SPT06	9.00	Brownish grey clayey silt with sand mixture & decomposed rock													43	22	30	5
DBH98	SPT01	1.50	Reddish brown clayey silt with decomposed rock dust & rock pieces.			2.63										27	34	28	11

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH99	SPT01	1.50	Reddish brown clayey silt with traces of sand mixture.										31	19	14				
DBH99	SPT03	4.50	Reddish brown clayey silt with sand mixture & rock dust.														26	54	20
DBH100	SPT04	5.50	Reddish brown clayey silt.										32	22	21				
DBH100	SPT06	14.00	Sludge of rock samples.			2.54											5 95 (Silt+Clay)		
DBH101	SPT01	1.50	Brownish grey clayey silt with decomposed rock fragments.			2.62											15	66	19
DBH101	SPT02	3.00	Reddish brown clayey silt.										31	23					
DBH101	SPT04	6.00	Sludge of rock samples.														12	57	31
DBH102	SPT01	1.50	Reddish brown decomposed rock dust & rock fragments			2.99											64	26	10
DBH102	SPT02	4.00	Brownish grey clayey silt.										32	20					
DBH102	SPT06	10.50	Brownish grey clayey silt with traces of sand mixture.														18	50	32

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %	Ratio	Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH103	UDS01	0.50	Brownish grey silty clay/ clayey silt.	1.96	1.63		20 S		TRSH-UU	0.58	0	35	14	12					
							20 T		3.0	0.661									
									2.0	0.546									
									1.0	0.544									
DBH103	SPT03	6.00	Brownish grey clayey silt with traces of sand mixture.				2.72									11	63	26	
DBH103	SPT08	13.50	Reddish brown clayey silt with traces of sand mixture.									31	19						
DBH103	SPT11	18.00	Reddish brown clayey silt with decomposed rock dust.												5	6	89 (Silt+Clay)		
DBH108	UDS01	0.50	Brownish grey clayey silt.	2.01	1.74		15 S		UNCONFD	0.57	0	35	15						
									0.0	0.524									
									0.0	0.561									
									0.0	0.623									
									REMOULD	0.33	0								
									0.0	0.301									
									0.0	0.324									
								0.0	0.359										
DBH108	SPT02	3.00	Brownish grey clayey silt with sand mixture.				2.71									23	55	22	
DBH109	SPT01	1.50	Brownish grey clayey silt with traces of sand mixture.													15	60	25	
DBH109	SPT02	3.00	Reddish brown clayey silt.									31	19						
DBH110	SPT01	1.50	Brownish grey clayey silt with traces of sand mixture & decomposed rock dust.				2.80									44	39	17	

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH110	SPT04	6.00	Reddish brown clayey silt.										53	19					
DBH110	SPT08	12.00	Whitish grey clayey silt with traces of sand mixture.													10	74	16	
DBH110	SPT12	18.00	Brownish grey clayey silt with traces of sand mixture.										32	20					
DBH111	SPT01	1.00	Brownsih grey clayey silt with decomposed rock fragments.			2.67										25	51	24	
DBH111	SPT05	7.50	Steel grey clayey silt.										43	22	16				
DBH111	SPT10	15.00	Yellowish grey clayey silt/silty clay with traces of sand mixture.													1	99 (Silt+Clay)		
DBH111	SPT16	24.00	Yellowish brown clayey silt with traces of rock pieces.										34	21					
DBH112	SPT07	10.50	Yellowish grey clayey silt.			2.61										2	66	32	
DBH112	SPT13	20.00	Brownish grey clayey silt.										40	20					
DBH113	UDS01	0.50	Brownish grey clayey silt with traces of sand mixture & red spots.	1.97	1.66		19 S		UNCONFD	0.29	0		24	18	15				
									0.0	0.319									
									0.0	0.273									
									0.0	0.270									

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Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
									REMOULD	0.17	0								
									0.0	0.188									
									0.0	0.159									
									0.0	0.155									
DBH113	SPT03	4.50	Light grey clayey silt with sand mixture, decomposed rock dust & rock pieces.													15	2	83	(Silt+Clay)
DBH113	SPT06	9.00	Light brown clayey silt.										32	20					
DBH113	SPT10	15.00	Whitish grey clayey silt with traces of sand mixture.													14	66	20	
DBH116	SPT01	1.00	Brownish grey clayey silty sand with rock dust & traces of calcareous			2.63													
DBH116	SPT04	6.00	Light brown clayey silt with compacted silt.										34	20					
DBH116	SPT08	12.00	Light grey clayey silt with traces of rock pieces.													6	9	61	24
DBH119	UDS01	0.50	Reddish brown clayey silt.	1.91	1.62		18 S						39	19	14				
DBH119	UDS02	3.00	Reddish brown clayey silt with traces of sand mixture.	2.07	1.73		20 S 20 T		TRSH-UU	1.46	0					15	57	28	
									3.0	1.504									
									2.0	1.464									
									1.0	1.415									
DBH119	SPT02	3.50	Reddish brown clayey silt.										56	25					

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void Ratio	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %		Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH120	UDS01	0.50	Deep grey silty clay / clayey silt with yellowish patches & traces of kankar.	1.93	1.56		24 S										6	62	32
DBH120	UDS03	3.50	Reddish brown clayey silt with traces of sand mixture.	2.04	1.71		21 S 19 T		TRSH-UU	1.12	0	44	23						
									3.0	1.194									
									2.0	1.110									
									1.0	1.067									
DBH120	SPT03	4.50	Brownish grey clayey silt with traces of fine sand mixture.			2.71										11	50	39	
DBH121	UDS01	0.50	Reddish brown silty clay with traces of kankars.	1.93	1.55		24 S		UNCONFD	0.48	0					6	57	37	
									0.0	0.485									
									0.0	0.477									
									0.0	0.472									
									REMOULD	0.30	0								
									0.0	0.295									
									0.0	0.295									
									0.0	0.295									
DBH121	UDS02	3.50	Reddish brown silty clay with traces of kankars.	1.97	1.60		22 S 23 T 22 C	0.617	TRSH-UU	0.87	7	54	25	22					
									3.0	1.382									
									2.0	1.212									
									1.0	1.121									
DBH121	SPT03	6.60	Brownish grey clayey silt.									52	25						
DBH122	UDS01	0.50	Reddish brown silty clay with steel grey patches.	1.94	1.59		26 S 22 T					56	23	19					
DBH122	UDS02	3.50	Brownish grey clayey silt/silty clay with sand mixture & reddish patches.	1.98	1.64	2.76	22 S 21 T		TRSH-UU	1.00	0					19	56	25	
									3.0	1.047									
									2.0	0.992									
									1.0	0.951									
DBH122	SPT03	7.00	Brownish grey clayey silt with sand mixture & rock dust													34	50	16	

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void Ratio	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %		Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH123	UDS01	0.50	Whitish grey clayey silt / silty clay with traces of kankars & red spots.	1.88	1.59		17 S		UNCONFD		0.75	0	32	18	17				
									0.0	0.775									
									0.0	0.769									
									0.0	0.699									
									REMOULD		0.50	0							
									0.0	0.465									
								0.0	0.495										
								0.0	0.549										
DBH123	SPT04	4.00	Sludge of rock samples.														14	86 (Silt+Clay)	
DBH123	SPT10	10.00	Sludge of rock samples.													13	26	55	6
DBH124	UDS01	0.50	Yellowish grey silty clay with steel grey patches.	1.98	1.67		17 S		UNCONFD		0.75	0					11	64	25
									0.0	0.797									
									0.0	0.728									
									0.0	0.725									
									REMOULD		0.45	0							
									0.0	0.482									
								0.0	0.430										
								0.0	0.428										
DBH124	SPT01	2.00	Brownish grey clayey silt,										47	24	17				
DBH124	SPT02	4.00	Light grey clayey silt with traces of sand mixture.														5	95 (Silt+Clay)	
DBH125	UDS01	0.50	Light grey clayey silt with rusty spots.	2.07	1.75		20 S		TRSH-UU		0.89	9	37	22	18				
								18 T	3.0	1.574									
									2.0	1.350									
								1.0	1.227										
DBH125	SPT01	2.00	Brownish grey clayey silt with sand mixture.				2.70										11	65	24

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH125	SPT03	5.00	Whitish grey clayey silt.										33	18					
DBH126	SPT05	4.00	Sludge of rock samples.			2.81										4	16	80 (Silt+Clay)	
DBH128	UDS01	0.50	Greyish brown silty clay / clayey silt with traces of sand mixture.	1.99	1.62	2.59	22 S												
DBH128	SPT02	4.00	Reddish brown clayey silt with decomposed rock.										51	23	18				
DBH128	SPT05	8.00	Sludge of rock sample.													5	32	63 (Silt+Clay)	
DBH129	SPT03	4.50	Yellowish grey clayey silt with decomposed rock dust.			2.53											18	62	20
DBH129	SPT06	9.00	Yellowish grey clayey silt with traces of kankars.										49	23					
DBH129	SPT09	13.20	Yellowish grey clayey silt with decomposed rock.													4	53	43 (Silt+Clay)	
DBH130	SPT02	2.50	Brownish grey clayey silt with traces of rock pieces.			2.56											6	71	23
DBH130	SPT04	5.50	Reddish brown clayey silt with traces of moorum.										43	23	19				

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Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void Ratio	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %		Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH130	SPT08	11.00	Reddish brown clayey silt with sand mixture & decomposed rock.													5	25	70 (Silt+Clay)	
DBH131	SPT01	1.50	Reddish brown clayey silt with traces of rock pieces.										34	21					
DBH131	SPT04	6.00	Yellowish grey clayey silt.				2.61										14	58	28
DBH131	SPT09	13.50	Yellowish grey clayey silt.										36	20					
DBH132	UDS01	0.50	Reddish brown silty clay with traces of kankars & rock pieces.	1.80	1.56		17 S 15 T			TRSH-UU 3.0 2.0 1.0	0.92	0	40	23	19				
DBH132	SPT01	2.00	Brownish grey clayey silt with traces of sand mixture & rock pieces.				2.56										8	77	15
DBH132	SPT04	7.00	Yellowish brown clayey silt.										34	21					
DBH133	SPT01	1.00	Brownish grey silty sand with cement & concrete.										37	22					
DBH133	SPT02	2.00	Brownish grey silty sand with stone chips, concrete, kankars.				2.60									25	56	16	3
DBH133	SPT03	4.00	Brownish grey clayey silt with traces of rock pieces & kankars.										43	21					

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Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH133	SPT05	7.00	Brownish grey clayey silt with decomposed rock.													9	34	57	(Silt+Clay)
DBH134	SPT02	3.00	Brownish grey clayey silt.										45	21	17				
DBH134	SPT04	6.00	Yellowish grey clayey silt with sand mixture & rock fragments.			2.60											33	53	14
DBH136	UDS01	0.50	Brownish grey clayey silt with traces of sand mixture.	1.97	1.68		17 S 17 T										36	46	18
DBH136	SPT02	4.00	Reddish brown clayey silt with traces of kankars.										55	24	21				
DBH136	SPT04	7.00	Brownish grey clayey silt.														4	64	32
DBH137	UDS01	0.50	Brownish grey clayey silt with traces of sand mixture.	2.02	1.73		17 S			TRSH-UU	0.48	6							
										3.0	0.871								
										2.0	0.793								
										1.0	0.632								
DBH137	SPT01	2.00	Yellowish grey clayey silt with sand mixture & kankars.													8	42	38	12
DBH137	SPT03	5.50	Yellowish brown clayey silt with traces of rock pieces.										34	21					

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Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH137	SPT06	10.00	Yellowishi grey clayey silt with decomposed rock.														18	60	22
DBH138	UDS01	0.50	Reddish brown silty clay / clayey silt with moorum.	2.01	1.72		19 S 17 T		UNCONFD	0.88	0								
									0.0	0.869									
									0.0	0.882									
									0.0	0.901									
									REMOULD	0.64	0								
									0.0	0.611									
									0.0	0.673									
									0.0	0.638									
DBH138	SPT01	2.00	Greyish brown clayey silt with traces of kankars & rock pieces.										46	20					
DBH138	SPT02	3.50	Reddish brown clayey silt with sand mixture & kankars.			2.68											33	47	20
DBH139	UDS01	0.50	Reddish brown silty clay with moorum.	2.08	1.77		18 S 18 T		TRSH-UU	0.62	6		35	19	16				
									3.0	1.015									
									2.0	0.901									
									1.0	0.793									
DBH139	SPT01	2.00	Brownish grey clayey silt with sand mixture, & rock fragments.			2.60											13	52	35
DBH139	SPT02	4.10	Reddish brown clayey silt / silty clay.										60	25					
DBH141	SPT02	2.00	Reddish brown silty sand with morrum & kankars.													22	51	27 (Silt+Clay)	

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %	Ratio	Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH141	UDS02	3.50	Reddish brown silty clay with kankars.	1.93	1.54		26 S	0.610	TRSH-UU	1.48	5	59	27	16					
							25 T		3.0	1.914									
							23 C		2.0	1.773									
									1.0	1.717									
DBH141	SPT03	5.00	Brownish grey clayey silt with traces of kankars & fine sand mixture.			2.57										11	54	35	
DBH142	SPT01	1.00	Greyish brown clayey silt with traces of kankars & rock pieces.									32	18						
DBH142	SPT02	2.50	Reddish brown clayey silt with with decomposed rock fragmets.												17	44	31	8	
DBH144	UDS01	0.50	Deep brown silty clay.	1.94	1.48		32 S		UNCONFD	1.28	0	32	21	14					
							31 T		0.0	1.319									
									0.0	1.247									
									0.0	1.277									
									REMOULD	0.98	0								
									0.0	0.996									
									0.0	0.964									
									0.0	0.981									
DBH144	SPT01	2.00	Reddish brown clayey silt with sand mixture, kankars & morrum.													30	41	29	
DBH144	SPT02	4.50	Reddish brown clayey silt / silty clay.									60	25						
DBH146	UDS01	0.50	Yellowish grey silty clay with traces of steel grey spots & kankars.	2.06	1.76		17 S		UNCONFD	2.11	0								
							17 T		0.0	2.267									
									0.0	2.139									
									0.0	1.934									

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Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
									REMOULD		1.64	0							
									0.0	1.718									
									0.0	1.616									
									0.0	1.577									
DBH146	UDS02	3.50	Reddish brown clayey silt with moorum.	2.11	1.83		15 S	0.528	TRSH-UU		1.80	0	35	19	11				
							15 T		3.0	1.833									
							15 C		2.0	1.814									
									1.0	1.755									
DBH146	SPT04	7.50	Brownish grey clayey silt.														2	67	31
DBH148	UDS01	0.50	Greyish brown silty clay / clayey silt with traces of kankars.	2.00	1.69		19 S		UNCONFD		0.95	0							
							18 T		0.0	0.976									
									0.0	0.948									
									0.0	0.931									
									REMOULD		0.71	0							
									0.0	0.718									
									0.0	0.685									
									0.0	0.736									
DBH148	SPT01	2.00	Greyish brown clayey silt with traces of kankars.										50	21					
DBH148	SPT03	4.70	Brownish grey clayey silt with rock pieces.													47	17	36 (Silt+Clay)	
DBH149	SPT02	2.50	Reddish brown clayey silt with traces of moorum.										43	22					
DBH149	SPT04	5.50	Brownish grey clayey silt with traces of rock dust & fine sand mixture.				2.56										5	53	42

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void Ratio	Strength Test Results				Atter. Limits			Grain Size				
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %		Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %	
DBH149	SPT06	8.50	Brownish grey clayey silt with traces of rock pieces,										45	21						
DBH151	SPT02	2.00	Brownish grey clayey silt with disintegrated & decomposed rock.			2.63											37	40	23	
DBH151	UDS02	3.50	Brownish grey clayey silt with disintegrated & decomposed rock.	1.98	1.62		24 S 22 T		TRSH-UU	0.86	8	59	28	15						
										3.0	1.424									
										2.0	1.379									
										1.0	1.166									
DBH151	SPT07	10.00	Brownish grey clayey silt with traces of rock fragments & fine sand mixture.														4	60	36	
DBH153	UDS01	0.50	Reddish brown clayey moorum.	2.06	1.84		11 S 12 T		UNCONFD	1.22	0	32	18							
										0.0	1.273									
										0.0	1.314									
										0.0	1.068									
										REMOULD	0.93	0								
										0.0	0.964									
										0.0	0.886									
										0.0	0.931									
DBH153	SPT02	4.00	Brownish grey clayey silt with traces of sand mixture.			2.63											9	65	26	
DBH153	SPT05	7.50	Light brownsh grey clayey silt with silt stone.										34	21						
DBH154	UDS01	0.50	Greyish brown silty clay/ clayey silt with traces of kankars.	1.96	1.63		20 S 20 T		UNCONFD	0.80	0									
										0.0	0.774									
										0.0	0.788									
										0.0	0.846									

Bore Hole	Sample Number	Depth M	Sample Description	Bulk Dens. gms/cc	Dry Dens. gms/cc	Spec. Grav.	Nat. Mois. %	Void Ratio	Strength Test Results				Atter. Limits			Grain Size				
									Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %	
										REMOULD	0.61	0								
										0.0	0.571									
										0.0	0.620									
										0.0	0.642									
DBH154	SPT01	2.00	Brownish grey clayey silt with traces of kankars.										48	23						
DBH155	UDS01	0.50	Reddish brown silty clay with moorum.	1.99	1.68		18 S			UNCONFD	0.30	0								
										0.0	0.355									
										0.0	0.318									
										0.0	0.233									
										REMOULD	0.17	0								
										0.0	0.212									
										0.0	0.167									
										0.0	0.138									
DBH155	SPT03	5.50	Reddish brown clayey silt/silty clay.										62	25						
DBH155	SPT08	12.50	Brownish grey clayey silt with traces of sand mixture.														10	61	29	
DBH156	SPT02	2.50	Reddish brown silty sand with morrum & Kankars.													23	53	18	6	
DBH156	SPT03	4.00	Reddish brown clayey silt.										51	21						
DBH156	SPT04	6.00	Reddish brown clayey silt with decomposed rock.			2.64											42	45	13	
DBH157	SPT01	1.10	Reddish brown silty sand with morrum & Kankars.													31	50	16	3	

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH157	UDS02	3.50	Whitish brown clayey silt.	1.91	1.72		9 S	0.506	TRSH-UU	1.19	6	41	23						
							11 T		3.0	1.631									
							12 C		2.0	1.607									
									1.0	1.436									
DBH157	SPT05	8.00	Brownish grey clayey silt with decomposed rock.												8	40	52 (Silt+Clay)		
DBH157	SPT10	15.00	Reddish brown clayey silt.									52	24						
DBH159	UDS01	0.50	Brownish grey clayey silt with traces of kankars.	1.99	1.64		22 S		UNCONFD	0.17	0	36	29	23					
									0.0	0.179									
									0.0	0.168									
									0.0	0.164									
									REMOULD	0.10	0								
									0.0	0.104									
									0.0	0.098									
									0.0	0.091									
DBH159	UDS02	3.55	Deep brownish grey clayey silt with traces of kankar & yellowish spots.	1.93	1.52	2.69	26 S	0.718	TRSH-UU	0.68	0	58	23	13		13	56	31	
							26 T		3.0	0.734									
							26 C		2.0	0.686									
									1.0	0.624									
DBH159	SPT04	6.00	Brownish grey clayey silt with rock pieces.									48	21						
DBH160	UDS01	0.50	Reddish brown silty clay.	1.96	1.59		24 S		UNCONFD	0.86	0					3	66	31	
									0.0	0.796									
									0.0	0.944									
									0.0	0.850									
									REMOULD	0.70	0								
									0.0	0.653									
									0.0	0.689									
									0.0	0.766									

Job No. : 4607

Project: Geotechnical Investigation for Lara STPP, Stage II, Chhattisgarh.



Sheet No.

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens.	Dens.	Grav.	Mois.	Ratio	Pc/Pn	Shear	Cohesn	Frictn	LL	PL	SL	Gravl	Sand	Silt	Clay
				gms/cc	gms/cc		%		kg/sqcm	kg/sqcm	kg/sqcm	Deg.	%	%	%	%	%	%	%
DBH160	UDS02	3.50	Brownish grey clayey silt with kankars.	1.95	1.63		18 S 20 T		TRSH-UU	0.75	6	52	20	14					
										3.0	1.188								
										2.0	1.051								
										1.0	0.956								
DBH160	SPT03	6.50	Brownish grey clayey silt with traces of sand mixture.														3	97 (Silt+Clay)	
DBH161	SPT01	1.00	Reddish brown clayey silt with sand, morrum & kankars.			3.23											79	17	4
DBH161	UDS02	2.50	Reddish brown silty clay with yellowish patches.	1.92	1.52		26 S 25 C	0.671	UNCONFD	0.76	0	58	25						
										0.0	0.810								
										0.0	0.756								
										0.0	0.706								
										REMOULD	0.51	0							
										0.0	0.508								
										0.0	0.586								
										0.0	0.440								
DBH161	SPT08	14.00	Reddish brown clayey silt.									54	24						
DBH162	UDS02	2.50	Reddish brown silty clay with white spots, sand mixture & traces of rock	1.96	1.67		20 S		UNCONFD	1.56	0	54	24						
										0.0	1.701								
										0.0	1.520								
										0.0	1.446								
										REMOULD	1.22	0							
										0.0	1.304								
										0.0	1.200								
										0.0	1.160								
DBH162	SPT03	5.50	Brownish grey clayey silt with sand mixture & decomposed rock dust.			2.75											33	50	17
DBH162	SPT06	10.00	Reddish brown silty clay.									52	18						

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %	Ratio	Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
DBH163	SPT06	15.00	Sludge of rock samples.														11	67	22
DBH164	DS01	0.30	Light grey clayey silt with traces of sand mixture.														9	63	28
DBH165	SPT01	1.00	Reddish brown clayey silt with moorum.									43	17						
DBH165	UDS02	3.50	Greyish brown silty clay/ clayey silt with traces of decomposed rock pieces.	1.99	1.64	2.50	20 S 21 T 23 C	0.511	TRSH-UU 3.0 2.0 1.0	1.25 1.277 1.265 1.204	0						31	52	17
DBH165	SPT03	5.00	Brownish grey clayey silt with traces of kankars & rock pieces.									54	22						
DBH165	SPT06	9.50	Brownish grey clayey silt with traces of rock fragments & fine sand mixture.														35	58	7
EBH01	SPT01	1.50	Yellowish grey clayey silt.			2.57											3	61	36
EBH01	UDS02	3.00	Reddish brown silty clay.	1.91	1.52		25 S 26 T 25 C	0.684	TRSH-UU 3.0 2.0 1.0	1.07 1.111 1.074 1.013	0	58	28	15					
EBH01	SPT04	7.50	Yellowish grey clayey silt with traces of rock fragments.														2	56	42

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %	Ratio	Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
EBH02	SPT01	1.00	Reddish brown clayey silt with moorum.										43	20					
EBH02	UDS01	3.20	Greyish yellow silty clay with traces of steel grey patches.	2.06	1.69	2.54	23 S 21 T		UNCONFD	0.96	0						4	58	38
									0.0	0.964									
									0.0	0.985									
									0.0	0.931									
									REMOULD	0.76	0								
									0.0	0.742									
									0.0	0.796									
									0.0	0.739									
EBH02	SPT06	9.00	Reddish brown clayey silt/silty clay.										51	24					
EBH03	SPT01	1.00	Reddish brown silty sand with morrum & kankars.													22	60	14	4
EBH03	UDS01	3.00	Reddish brown clayey silt / silty clay. Obs: kankars.	1.97	1.57		26 S 26 T 26 C	0.663	TRSH-UU	1.20	0	41	23						
									3.0	1.260									
									2.0	1.197									
									1.0	1.148									
EBH03	SPT04	6.00	Brownish grey clayey silt with traces of rock fragments & fine sand mixture.			2.54											6	53	41
EBH04	SPT01	1.00	Reddish brown silty clay with traces of moorum.										45	21					
EBH04	UDS01	2.50	Reddish brown silty clay with kankars.	2.01	1.55	2.50	32 S 30 T		TRSH-UU	1.36	0						25	45	30
									3.0	1.416									
									2.0	1.365									
									1.0	1.313									

Bore Hole	Sample Number	Depth M	Sample Description	Bulk	Dry	Spec.	Nat.	Void	Strength Test Results				Atter. Limits			Grain Size			
				Dens. gms/cc	Dens. gms/cc	Grav.	Mois. %	Ratio	Pc/Pn kg/sqcm	Shear kg/sqcm	Cohesn kg/sqcm	Frictn Deg.	LL %	PL %	SL %	Gravl %	Sand %	Silt %	Clay %
EBH04	SPT05	9.00	Reddish brown clayey silt.										49	23					
EBH05	UDS01	0.50	Yellowish grey clayey silt with traces of sand mixture.	1.98	1.53	2.61	30 S 29 T			UNCONFD	0.87	0	33	21					
										0.0	0.895								
										0.0	0.831								
										0.0	0.872								
										REMOULD	0.68	0							
										0.0	0.636								
										0.0	0.713								
										0.0	0.682								
EBH05	SPT02	3.00	Yellowish grey clayey silt with traces of sand mixture.			2.61											17	54	29
EBH05	SPT04	6.00	Greyish brown clayey silt.										51	21					
EBH07	SPT01	1.00	Reddish brown clayey silt with traces of decomposed rock.														13	56	31
EBH07	UDS01	2.50	Yellowish grey silty clay with traces of steel grey patches.	2.03	1.68		16 S 21 T 15 C	0.467		TRSH-UU	1.05	5	41	23					
										3.0	1.470								
										2.0	1.385								
										1.0	1.200								
EBH07	SPT05	8.50	Yellowish grey clayey silt.			2.56											2	64	34

LABORATORY ROCK TEST RESULTS

BH No.	Run No.	Depth (M)	Density (gm/cc)		Water Content %	Porosity %	Specific Gravity	Unconfined Compressive strength (kg/sqcm)		Coefficient of softening	Point Load Strength Index (kg/sqcm)	Young's Modulus (kg/sqcm)	Slake Durability Index (%)	Hardness (Based on Mohs' Scale)	Soundness* (% Loss)	Impact Value
			Bulk	Dry				In-Situ	Saturated							
DBH13	2	10.00-11.00	--	--	--	--	--	--	--	--	--	--	99.34	--	--	--
DBH13	3	11.00-12.00	--	--	--	--	2.928	--	--	--	96.39	--	--	--	--	--
DBH13	7	15.00-16.00	--	--	--	--	--	--	--	--	--	--	--	--	6.25	--
DBH13	9	17.00-18.00	--	--	--	--	--	488	--	--	--	--	--	--	--	--
DBH17	1	10.00-11.00	2.792	2.787	0.147	2.193	--	--	--	--	59.54	--	--	--	--	--
DBH17	2	11.00-12.00	--	--	--	--	--	--	--	--	--	--	--	3-4	--	--
DBH22	1	9.00-10.00	2.859	2.855	0.141	0.863	--	--	--	747	--	34319	--	--	--	--
DBH22	4	12.00-13.00	--	--	--	--	2.936	--	--	--	67.11	--	--	--	--	--
DBH22	6	14.00-15.00	--	--	--	--	--	--	--	--	--	--	--	--	--	16.60
DBH23	3	8.00-9.00	--	--	--	--	2.919	799	738	0.92	--	24242	--	--	--	--
DBH23	4	9.00-10.00	--	--	--	--	--	--	--	--	--	--	--	--	4.50	--
DBH23	7	12.00-13.00	--	--	--	--	--	--	--	--	--	--	--	--	--	14.26
DBH29	1	9.50-10.25	2.269	2.257	0.546	13.217	2.601	--	--	--	--	--	--	--	--	--
DBH29	4	11.75-12.50	--	--	--	--	--	--	--	--	--	--	--	3-4	--	--
DBH29	6	13.25-14.00	--	--	--	--	--	--	--	--	--	--	99.58	--	--	--
DBH29	11	17.00-17.75	--	--	--	--	--	--	703	--	--	--	--	--	--	--
DBH42	3	7.50-8.25	2.736	2.734	0.070	0.770	--	--	--	--	59.31	--	--	--	--	--
DBH42	5	9.00-9.75	--	--	--	--	--	--	--	--	--	--	--	3-4	--	--
DBH42	9	12.00-12.75	--	--	--	--	--	--	--	--	--	--	--	--	4.00	--
DBH42	16	17.25-18.00	2.894	2.891	0.089	1.026	2.921	789	648	0.82	--	--	--	--	--	--
DBH43	3	10.00-10.75	2.762	2.756	0.219	3.410	--	--	--	--	39.42	--	--	--	--	--
DBH43	10	15.25-16.00	--	--	--	--	--	--	--	--	--	--	99.05	--	--	--
DBH43	14	18.25-19.00	--	--	--	--	--	803	755	0.94	--	--	--	--	--	--
DBH44	2	11.00-11.75	--	--	--	--	2.891	--	884	--	--	36171	--	--	--	--
DBH44	5	13.25-14.00	--	--	--	--	--	--	--	--	--	--	--	--	5.92	--
DBH45	2	8.25-9.00	2.872	2.870	0.074	0.686	--	--	--	--	60.34	--	--	--	--	--
DBH45	8	12.75-13.50	--	--	--	--	--	--	--	--	--	--	--	3-4	--	--
DBH45	11	15.00-15.75	--	--	--	--	--	--	--	--	--	--	--	--	--	18.42
DBH45	18	20.25-21.00	--	--	--	--	--	934	875	0.94	--	--	--	--	--	--
DBH49	1	8.00-8.75	2.843	2.839	0.136	1.215	--	--	--	--	47.11	--	--	--	--	--
DBH49	13	17.00-17.75	--	--	--	--	--	--	970	--	--	--	--	--	--	--
DBH49	16	19.25-20.00	--	--	--	--	--	--	--	--	--	--	99.35	--	--	--

BH No.	Run No.	Depth (M)	Density (gm/cc)		Water Content %	Porosity %	Specific Gravity	Unconfined Compressive strength (kg/sqcm)		Coefficient of softening	Point Load Strength Index (kg/sqcm)	Young's Modulus (kg/sqcm)	Slake Durability Index (%)	Hardness (Based on Mohs' Scale)	Soundness* (% Loss)	Impact Value
			Bulk	Dry				In-Situ	Saturated							
			DBH50	2				8.00-9.00	2.924							
DBH50	5	11.00-12.00	--	--	--	--	2.940	820	743	0.91	--	--	--	--	--	--
DBH50	16	22.00-23.00	--	--	--	--	--	--	--	--	--	--	--	10.55	--	--
DBH51	1	10.00-10.75	2.842	2.840	0.077	0.697	--	--	--	--	--	--	--	--	--	--
DBH51	4	12.25-13.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	--
DBH51	11	17.50-18.25	--	--	--	--	--	668	--	--	--	--	--	--	--	--
DBH52	2	13.00-14.00	--	--	--	--	2.698	488	331	0.68	--	17581	--	--	--	--
DBH52	4	15.00-16.00	--	--	--	--	--	--	--	--	--	99.40	--	--	--	--
DBH52	6	17.00-18.00	--	--	--	--	--	--	--	--	87.97	--	--	--	--	--
DBH55	7	11.50-12.25	--	--	--	--	--	797	--	--	--	--	--	--	--	--
DBH55	8	12.25-13.00	--	--	--	--	--	--	--	--	--	--	--	15.36	--	--
DBH55	10	13.75-14.50	2.853	2.847	0.215	1.746	--	--	--	--	45.69	--	--	--	--	--
DBH55	18	19.75-20.50	--	--	--	--	--	--	--	--	--	99.44	--	--	--	--
DBH55	22	22.75-23.50	--	--	--	--	--	--	885	--	--	35315	--	--	--	--
DBH56	8	14.75-15.50	--	--	--	--	2.954	905	825	0.91	--	--	--	--	--	--
DBH56	10	16.25-17.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	--
DBH56	15	20.00-20.75	2.896	2.894	0.092	0.788	--	--	--	--	--	--	--	--	--	--
DBH57	1	13.00-14.00	--	--	--	--	--	--	--	--	57.66	--	--	--	--	--
DBH57	3	15.00-16.00	--	--	--	--	--	747	702	0.94	--	--	--	--	--	--
DBH57	5	17.00-18.00	--	--	--	--	--	--	--	--	--	--	--	4.10	--	--
DBH58	4	13.00-14.00	2.855	2.852	0.114	1.418	--	--	--	--	25.88	--	--	--	--	--
DBH58	7	16.00-17.00	--	--	--	--	--	681	627	0.92	--	--	--	--	--	--
DBH58	11	20.00-21.00	--	--	--	--	--	--	--	--	--	99.59	--	--	--	--
DBH59	5	11.00-12.00	2.794	2.790	0.157	2.333	--	--	--	--	68.54	--	--	--	--	--
DBH59	6	12.00-13.00	--	--	--	--	2.804	823	--	--	--	--	--	--	--	--
DBH59	10	16.00-17.00	--	--	--	--	--	--	--	--	--	--	--	7.30	--	--
DBH59	13	19.00-20.00	--	--	--	--	--	--	669	--	--	--	--	--	--	--
DBH62	2	8.50-9.50	2.921	2.919	0.075	0.883	--	--	823	--	--	--	--	--	--	--
DBH62	5	11.50-12.50	--	--	--	--	--	--	--	--	--	--	--	--	--	11.68
DBH62	8	14.50-15.50	--	--	--	--	2.923	917	--	--	--	--	--	--	--	--
DBH63	2	11.00-12.00	--	--	--	--	--	651	--	--	--	--	--	--	--	--
DBH63	5	14.00-15.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	--
DBH63	9	18.00-19.00	--	--	--	--	--	--	--	--	50.88	--	--	--	--	--
DBH64	3	11.00-12.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	--
DBH64	6	14.00-15.00	2.883	2.880	0.111	0.998	--	--	--	--	--	--	--	--	--	--
DBH64	8	16.00-17.00	--	--	--	--	--	--	--	--	--	--	--	14.65	--	--

BH No.	Run No.	Depth (M)	Density (gm/cc)		Water Content %	Porosity %	Specific Gravity	Unconfined Compressive strength (kg/sqcm)		Coefficient of softening	Point Load Strength Index (kg/sqcm)	Young's Modulus (kg/sqcm)	Slake Durability Index (%)	Hardness (Based on Mohs' Scale)	Soundness* (% Loss)	Impact Value
			Bulk	Dry				In-Situ	Saturated							
			DBH65	2				6.50-7.50	2.912							
DBH65	6	10.50-11.50	--	--	--	--	--	884	--	--	--	--	--	--	--	
DBH65	9	13.50-14.50	--	--	--	--	--	--	--	--	--	99.52	--	--	--	
DBH65	12	16.50-17.50	--	--	--	--	--	--	550	--	26046	--	--	--	--	
DBH66	2	8.50-9.50	2.895	2.894	0.030	0.395	--	761	734	0.96	--	--	--	--	--	
DBH66	4	10.50-11.50	--	--	--	--	--	--	--	--	--	97.88	--	--	--	
DBH66	7	13.50-14.50	--	--	--	--	--	--	--	--	--	--	--	16.80	--	
DBH67	4	10.25-11.00	2.790	2.785	0.153	1.827	--	--	--	--	41.56	--	--	--	--	
DBH67	9	14.00-14.75	--	--	--	--	--	653	--	--	--	--	--	--	--	
DBH67	13	17.00-17.75	--	--	--	--	--	--	--	--	--	--	3-4	--	--	
DBH68	1	6.50-7.50	--	--	--	--	2.919	--	544	--	25259	--	--	--	--	
DBH68	3	8.50-9.50	2.887	2.877	0.354	0.689	--	--	--	--	61.78	--	--	--	--	
DBH68	9	14.50-15.50	--	--	--	--	--	--	--	--	--	99.54	--	--	--	
DBH69	4	9.00-10.00	2.800	2.798	0.062	1.586	--	--	--	--	62.23	--	--	--	--	
DBH69	6	11.00-12.00	--	--	--	--	--	--	--	--	--	--	--	11.28	--	
DBH69	9	14.00-15.00	--	--	--	--	--	788	738	0.94	--	--	--	--	--	
DBH70	1	4.50-5.50	2.859	2.856	0.092	0.948	--	--	--	--	74.09	--	--	--	--	
DBH70	9	12.50-13.50	--	--	--	--	--	--	--	--	--	99.55	--	--	--	
DBH70	10	13.50-14.50	--	--	--	--	--	932	--	--	--	--	--	--	--	
DBH71	1	7.50-8.50	--	--	--	--	--	--	--	--	--	99.29	--	--	--	
DBH71	6	12.50-13.50	--	--	--	--	--	--	--	--	51.31	--	--	--	--	
DBH71	8	14.50-15.50	--	--	--	--	--	--	--	--	--	--	--	8.11	--	
DBH71	11	17.50-18.50	--	--	--	--	--	--	432	--	--	--	--	--	--	
DBH72	1	6.00-7.00	2.865	2.861	0.133	0.712	--	--	821	--	23304	--	--	--	--	
DBH72	4	9.00-10.00	--	--	--	--	--	--	--	--	--	--	3-4	--	15.40	
DBH72	7	12.00-13.00	--	--	--	--	--	737	--	--	--	--	--	--	--	
DBH73	3	10.00-11.00	--	--	--	--	--	--	--	--	53.46	--	--	--	--	
DBH73	10	17.00-18.00	--	--	--	--	--	500	--	--	--	--	--	--	--	
DBH73	12	19.00-20.00	--	--	--	--	--	--	--	--	--	--	--	--	19.99	
DBH74	3	7.00-8.00	--	--	--	--	2.929	--	--	--	65.05	--	--	--	--	
DBH74	8	12.00-13.00	--	--	--	--	--	716	619	0.86	--	35058	--	--	--	
DBH74	11	15.00-16.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	
DBH75	2	6.50-7.50	2.842	2.837	0.162	2.354	--	--	--	--	42.18	--	--	--	--	
DBH75	3	7.50-8.50	--	--	--	--	2.916	672	620	0.92	--	--	--	--	--	
DBH75	9	13.50-14.50	--	--	--	--	--	--	--	--	--	98.64	--	--	--	
DBH76	3	8.50-9.50	2.737	2.732	0.166	1.134	--	--	--	--	54.98	--	--	--	--	
DBH76	6	11.50-12.50	--	--	--	--	2.882	529	489	0.92	--	--	--	--	--	

BH No.	Run No.	Depth (M)	Density (gm/cc)		Water Content %	Porosity %	Specific Gravity	Unconfined Compressive strength (kg/sqcm)		Coefficient of softening	Point Load Strength Index (kg/sqcm)	Young's Modulus (kg/sqcm)	Slake Durability Index (%)	Hardness (Based on Mohs' Scale)	Soundness* (% Loss)	Impact Value
			Bulk	Dry				In-Situ	Saturated							
			DBH76	9				14.50-15.50	--							
DBH77	4	10.00-11.00	2.838	2.836	0.065	1.730	--	--	--	--	56.57	--	--	--	--	
DBH77	8	14.00-15.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	
DBH78	3	11.50-12.50	--	--	--	--	--	--	--	--	46.06	--	--	--	--	
DBH78	6	14.50-15.50	--	--	--	--	--	--	--	--	--	--	--	15.72	--	
DBH78	9	17.50-118.50	--	--	--	--	--	397	--	--	--	--	--	--	--	
DBH79	2	9.00-10.00	2.866	2.864	0.076	0.645	--	--	--	--	52.29	--	--	--	--	
DBH79	3	10.00-11.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	
DBH79	7	14.00-15.00	--	--	--	--	--	920	--	--	35824	--	--	--	--	
DBH79	10	17.00-18.00	--	--	--	--	--	644	--	--	--	--	--	--	--	
DBH80	3	11.00-12.00	2.830	2.828	0.069	0.698	--	580	--	--	30372	--	--	--	--	
DBH80	7	15.00-16.00	--	--	--	--	2.847	634	--	--	--	--	--	--	--	
DBH80	10	18.00-19.00	--	--	--	--	--	--	--	--	--	--	--	3.20	--	
DBH81	5	12.00-13.00	--	--	--	--	--	994	952	0.96	--	32077	--	--	--	
DBH81	6	13.00-14.00	--	--	--	--	--	--	--	--	--	--	--	--	9.54	
DBH81	8	15.00-16.00	--	--	--	--	--	--	--	--	--	--	--	16.32	--	
DBH82	8	14.00-15.00	--	--	--	--	--	--	--	--	--	--	2-4	--	--	
DBH83	6	12.00-13.00	2.697	2.690	0.261	1.305	--	--	--	--	13.09	--	--	--	--	
DBH83	12	18.00-19.00	2.751	2.748	0.120	0.954	2.775	--	314	--	--	--	--	--	--	
DBH84	1	11.00-12.00	--	--	--	--	--	--	--	--	53.15	--	--	--	--	
DBH84	4	14.00-15.00	--	--	--	--	2.877	--	451	--	--	20532	--	--	--	
DBH84	8	18.00-19.00	--	--	--	--	--	--	--	--	--	99.47	--	--	--	
DBH84	9	19.00-20.00	--	--	--	--	--	--	--	--	--	--	--	24.44	--	
DBH85	1	7.00-8.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	
DBH85	3	9.00-10.00	2.692	2.688	0.137	0.605	--	--	--	--	64.15	--	--	--	--	
DBH85	12	18.00-19.00	--	--	--	--	--	--	--	--	--	--	--	16.67	--	
DBH86	6	13.00-14.00	--	--	--	--	--	--	--	--	58.64	--	--	--	--	
DBH86	8	15.00-16.00	--	--	--	--	--	--	626	--	--	27228	--	--	--	
DBH86	11	18.00-19.00	--	--	--	--	--	--	--	--	--	99.25	--	--	--	
DBH87	2	10.00-11.00	--	--	--	--	--	--	264	--	--	14445	--	--	--	
DBH87	4	12.00-13.00	--	--	--	--	--	--	--	--	--	--	--	--	24.41	
DBH87	6	14.00-15.00	--	--	--	--	--	--	--	--	--	99.31	--	--	--	
DBH88	1	7.00-8.00	--	--	--	--	--	--	--	--	--	--	2-4	--	--	
DBH88	3	9.00-10.00	2.702	2.700	0.077	0.737	--	--	--	--	49.21	--	--	--	--	
DBH88	7	13.00-14.00	--	--	--	--	--	797	--	--	--	--	--	--	--	

BH No.	Run No.	Depth (M)	Density (gm/cc)		Water Content %	Porosity %	Specific Gravity	Unconfined Compressive strength (kg/sqcm)		Coefficient of softening	Point Load Strength Index (kg/sqcm)	Young's Modulus (kg/sqcm)	Slake Durability Index (%)	Hardness (Based on Mohs' Scale)	Soundness* (% Loss)	Impact Value
			Bulk	Dry				In-Situ	Saturated							
			DBH89	1				4.00-5.00	2.823							
DBH89	2	5.00-6.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	--
DBH89	5	8.00-9.00	--	--	--	--	--	746	--	--	--	--	--	--	--	--
DBH90	1	4.80-5.50	--	--	--	--	2.678	--	--	--	--	--	--	--	--	--
DBH90	4	7.00-8.00	--	--	--	--	--	--	--	--	--	--	--	29.96	--	--
DBH91	1	7.00-8.00	--	--	--	--	--	--	--	--	--	--	2-2.5	--	--	--
DBH91	4	10.00-11.00	--	--	--	--	2.742	--	--	--	--	--	--	--	--	--
DBH93	1	5.00-6.00	--	--	--	--	--	--	--	--	--	--	2-4	--	--	--
DBH93	3	7.00-8.00	2.096	1.967	6.508	--	--	--	--	0.92	--	--	--	--	--	--
DBH94	1	7.00-8.00	2.356	2.342	0.594	3.326	--	--	--	40.32	--	--	--	--	--	--
DBH94	9	15.00-16.00	--	--	--	--	--	--	--	--	--	--	--	22.00	--	--
DBH96	6	5.00-6.00	2.063	1.941	6.311	--	--	--	--	1.06	--	--	--	--	--	--
DBH97	1	12.00-13.00	--	--	--	--	2.854	--	--	--	--	--	--	--	--	--
DBH97	2	13.00-14.00	--	--	--	--	--	--	--	--	--	--	2-4	--	--	--
DBH98	3	5.00-6.00	2.345	2.216	5.845	14.239	2.616	--	--	1.06	--	--	--	--	--	--
DBH98	8	10.00-11.00	--	--	--	--	--	--	--	--	--	--	2-2.5	--	--	--
DBH98	11	13.00-14.00	--	--	--	--	--	--	--	--	--	44.69	--	--	--	--
DBH99	1	7.50-8.00	--	--	--	--	2.796	--	--	--	--	--	--	--	--	--
DBH99	3	9.00-10.00	2.120	2.087	1.569	--	--	--	--	0.89	--	--	--	--	--	--
DBH100	1	7.00-8.00	2.166	2.025	6.952	--	--	--	--	0.89	--	--	--	--	--	--
DBH100	7	13.00-14.00	--	--	--	--	--	--	--	--	--	--	--	--	--	45.81
DBH101	1	5.00-6.00	--	--	--	--	2.638	--	--	1.097	--	--	--	--	--	--
DBH101	10	14.00-15.00	--	--	--	--	--	--	--	--	--	40.02	--	--	--	--
DBH104	2	9.00-10.00	--	--	--	--	2.752	--	--	--	--	--	--	--	--	--
DBH105	1	5.50-6.50	2.288	2.130	7.413	--	--	--	--	0.89	--	--	--	--	--	--
DBH106	3	10.00-11.00	--	--	--	--	--	--	--	--	--	12.82	--	--	--	--
DBH107	1	5.00-6.00	--	--	--	--	--	--	--	--	--	--	--	32.33	--	--
DBH109	4	7.50-8.50	--	--	--	--	--	--	--	--	--	--	2-2.5	--	--	--
DBH115	1	6.00-7.00	2.283	2.219	2.879	7.135	--	--	--	1.78	--	--	--	--	--	--
DBH119	2	5.00-6.00	2.783	2.780	0.128	1.957	--	--	--	54.26	--	--	--	--	--	--
DBH119	6	9.00-10.00	--	--	--	--	--	777	741	0.95	--	--	--	--	--	--
DBH119	9	12.00-13.00	--	--	--	--	--	--	--	--	--	--	--	9.78	--	--
DBH120	3	7.00-8.00	2.854	2.854	0.015	0.452	--	703	651	0.93	--	28794	--	--	--	--
DBH120	6	10.00-11.00	--	--	--	--	--	--	--	--	--	--	--	--	--	14.70
DBH120	8	12.00-13.00	--	--	--	--	--	--	--	57.02	--	--	--	--	--	--

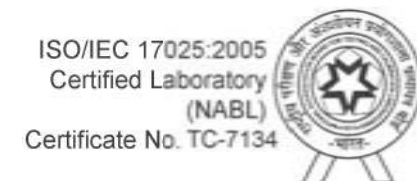
BH No.	Run No.	Depth (M)	Density (gm/cc)		Water Content %	Porosity %	Specific Gravity	Unconfined Compressive strength (kg/sqcm)		Coefficient of softening	Point Load Strength Index (kg/sqcm)	Young's Modulus (kg/sqcm)	Slake Durability Index (%)	Hardness (Based on Mohs' Scale)	Soundness* (% Loss)	Impact Value
			Bulk	Dry				In-Situ	Saturated							
			DBH120	9				13.00-14.00	--							
DBH121	5	11.00-12.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	
DBH121	6	12.00-13.00	2.831	2.827	0.132	1.861	--	707	668	0.95	--	--	--	--	--	
DBH122	1	8.00-9.00	--	--	--	--	--	--	--	--	--	34.75	--	--	--	
DBH122	3	10.00-11.00	--	--	--	--	--	--	--	--	--	--	--	26.55	--	
DBH123	2	2.00-3.00	--	--	--	--	--	--	--	--	--	--	2-2.5	--	--	
DBH123	10	10.00-11.00	--	--	--	--	--	--	--	--	0.94	--	--	--	--	
DBH124	2	5.00-6.00	--	--	--	--	--	--	--	--	--	--	--	--	36.95	
DBH124	5	8.00-9.00	--	--	--	--	--	--	--	--	--	--	2-2.5	--	--	
DBH124	10	13.00-14.00	--	--	--	--	--	--	--	--	--	48.17	--	--	--	
DBH125	2	7.50-8.50	--	--	--	--	--	--	--	--	--	--	--	33.33	--	
DBH125	4	9.50-10.50	--	--	--	--	--	--	--	--	--	25.65	--	--	--	
DBH125	7	13.50-14.00	2.126	2.034	4.510	23.407	2.656	--	--	--	0.92	--	--	--	--	
DBH126	3	2.00-3.00	--	--	--	--	--	--	--	--	--	50.83	--	--	--	
DBH126	13	12.00-13.00	--	--	--	--	2.726	--	--	--	--	--	--	--	--	
DBH128	1	8.00-9.00	2.213	2.049	7.980	8.667	2.652	--	--	--	0.97	--	--	--	--	
DBH128	2	9.00-10.00	--	--	--	--	--	--	--	--	--	--	3-4	--	--	
DBH129	1&2	13.50-15.00	--	--	--	--	--	--	--	--	--	--	--	31.11	--	
DBH130	1	13.00-14.00	--	--	--	--	--	--	--	--	--	56.40	--	--	--	
DBH132	1	9.00-10.00	--	--	--	--	--	--	--	--	--	--	2-4	--	--	
DBH132	4	12.00-13.00	--	--	--	--	--	--	--	--	1.06	--	--	--	--	
DBH133	1	8.00-9.00	2.708	2.705	0.105	1.335	--	--	--	--	42.77	--	--	--	--	
DBH133	3	10.00-11.00	--	--	--	--	--	--	--	--	--	--	--	11.50	--	
DBH133	5	12.00-13.00	--	--	--	--	--	--	--	--	--	59.63	--	--	--	
DBH134	1	7.50-8.50	--	--	--	--	--	--	--	--	--	--	3-4	--	--	
DBH134	4	10.50-11.50	--	--	--	--	--	--	--	--	35.05	--	--	--	--	
DBH134	7	13.50-14.50	--	--	--	--	--	--	--	--	--	--	--	15.65	--	
DBH138	1	5.00-6.00	--	--	--	--	--	--	--	--	--	--	--	--	45.88	
DBH138	4	8.00-9.00	2.596	2.519	3.062	9.068	--	--	--	--	0.89	--	--	--	--	
DBH138	5	9.00-10.00	--	--	--	--	--	--	--	--	--	83.48	--	--	--	
DBH139	1	6.00-7.00	--	--	--	--	2.713	--	--	--	57.02	--	--	--	--	
DBH139	2	7.00-8.00	--	--	--	--	--	--	--	--	--	--	--	23.43	--	

BH No.	Run No.	Depth (M)	Density (gm/cc)		Water Content %	Porosity %	Specific Gravity	Unconfined Compressive strength (kg/sqcm)		Coefficient of softening	Point Load Strength Index (kg/sqcm)	Young's Modulus (kg/sqcm)	Slake Durability Index (%)	Hardness (Based on Mohs' Scale)	Soundness* (% Loss)	Impact Value
			Bulk	Dry				In-Situ	Saturated							
DBH141	1	8.00-9.00	--	--	--	--	--	424	394	0.929	--	22809	--	--	--	--
DBH141	2	9.00-10.00	--	--	--	--	--	--	--	--	--	--	98.46	3-4	--	--
DBH141	3	10.00-11.00	--	--	--	--	2.764	433	385	0.889	--	23707	--	--	--	--
DBH142	1	4.00-5.00	2.287	2.242	1.991	12.289	--	--	--	--	0.89	--	--	--	--	--
DBH142	4	7.00-8.00	--	--	--	--	--	--	--	--	--	--	--	3-4	--	--
DBH144	3	7.00-8.00	--	--	--	--	--	--	--	--	--	--	--	--	19.60	--
DBH144	4	8.00-9.00	2.644	2.643	0.046	0.714	--	--	--	--	59.75	--	--	--	--	--
DBH148	1	5.00-6.00	--	--	--	--	2.753	--	427	--	--	23082	--	--	--	--
DBH148	2	6.00-7.00	2.876	2.870	0.206	2.369	--	539	--	--	--	--	--	--	--	--
DBH148	4	8.00-9.00	--	--	--	--	--	--	--	--	--	--	--	--	--	18.26
DBH153	1	9.00-10.00	--	--	--	--	2.731	--	--	--	--	--	--	--	--	--
DBH153	4	12.00-13.00	--	--	--	--	--	--	--	--	0.94	--	--	--	--	--
DBH153	6	14.00-15.00	--	--	--	--	--	--	--	--	--	--	--	--	30.00	--
DBH154	1	3.00-4.00	--	--	--	--	--	--	--	--	--	--	--	3-4	--	--
DBH154	3	5.00-6.00	2.817	2.816	0.044	0.536	--	--	477	--	--	27986	--	--	--	--
DBH154	7	9.00-10.00	--	--	--	--	--	777	--	--	--	--	92.78	--	--	--
DBH156	1	7.50-8.00	2.111	2.107	0.195	8.381	2.768	--	--	--	1.63	--	--	--	--	--
DBH156	4	10.00-11.00	--	--	--	--	--	--	--	--	--	--	--	2-2.5	--	--
DBH159	1	7.00-8.00	2.869	2.863	0.208	1.310	--	--	--	--	61.44	--	--	--	--	--
DBH159	5	11.00-12.00	--	--	--	--	--	--	--	--	--	--	--	--	8.25	--
DBH159	8	14.00-15.00	--	--	--	--	--	--	--	--	--	--	--	--	--	18.11
DBH160	2	8.00-9.00	2.877	2.873	0.124	1.230	--	435	393	0.90	--	21295	--	--	--	--
DBH160	4	10.00-11.00	--	--	--	--	--	--	--	--	--	--	99.52	--	--	--
DBH162	2	14.00-15.00	--	--	--	--	--	--	--	--	--	--	--	--	20.15	--
DBH163	5	4.00-5.00	2.139	1.922	11.276	22.780	2.684	--	--	--	0.79	--	--	--	--	--
DBH164	5	4.00-5.00	2.452	2.449	0.100	1.563	2.488	--	--	--	53.99	--	--	--	--	--
DBH164	6	5.30-6.00	--	--	--	--	--	--	--	--	--	--	--	3-4	--	--
DBH165	1	10.50-11.00	--	--	--	--	--	--	--	--	--	--	--	3-4	--	--
DBH165	4	13.00-14.00	--	--	--	--	--	--	--	--	--	--	63.32	--	--	--

BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
6	24	22.5-24.0	2.67	2.14	0.27	0.81	0.248	0.199	42	926*
6	53	27.0-28.5	2.75	2.30	0.30	1.86	0.196	0.164	33	724*
6	90	33.0-34.0	2.73	2.14	0.46	1.64	0.276	0.216	7	162*
59	5	25.0-26.5	2.69	2.50	0.08	1.12	0.076	0.071	112	2454*

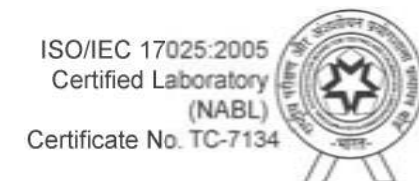
* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

Physical Properties of Rock



BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
52	26	21.5-23.0	-	2.75	0.11	0.89	-	-	71	1562*
52	39	23.0-24.5	2.85	2.71	0.33	0.59	0.052	0.050	-	361
52	48	26.0-27.5	2.82	2.75	0.11	0.48	0.025	0.024	-	597
53	41	23.5-25.0	-	2.47	0.04	0.75	-	-	105	2314*
72	7	7.5-9.0	-	2.69	0.02	0.26	-	-	111	2452*
72	36	12.0-13.5	2.84	2.76	0.07	0.26	0.028	0.027	-	388
72	51	13.5-15.0	-	2.65	0.04	0.31	-	-	178	3909*
72	61	16.0-17.0	2.80	2.72	0.06	0.13	0.029	0.028	-	393
72	66	16.0-17.0	2.81	2.58	0.07	0.58	0.089	0.082	199	4368*
73	33	16.0-17.5	2.77	2.69	0.83	2.16	0.030	0.029	-	368
73	49	20.5-22.0	2.81	2.70	0.24	1.68	0.041	0.039	-	636
73	55	22.0-23.5	-	2.54	0.03	0.30	-	-	56	1228*
73	61	23.5-25.0	2.83	2.73	0.07	0.24	0.037	0.036	-	394
87	7	13.5-15.0	-	2.63	0.01	0.15	-	-	144	3166*
87	13	15.0-16.5	-	2.80	0.04	0.14	-	-	46	1003*
87	45	24.0-25.0	-	2.42	0.28	0.64	-	-	91	2003*

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index



Physical Properties of Rock

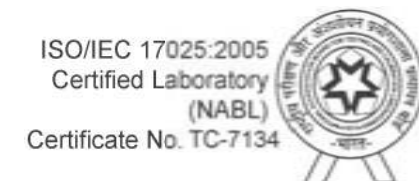
BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
88	5	9.0-10.5	-	2.83	0.08	0.50	-	-	106	2329*
88	16	13.5-15.0	2.67	2.65	0.06	0.29	0.008	0.007	190	4174*
88	27	16.5-18.0	-	2.55	0.01	0.73	-	-	197	4334*
88	42	22.5-24.0	2.78	2.60	0.05	0.59	0.069	0.065	99	2176*
88	48	24.0-25.0	-	2.78	0.01	0.68	-	-	223	4901*
89	21	8.0-9.5	2.83	2.75	0.05	0.33	0.029	0.028	-	588
89	35	9.5-11.0	2.83	2.79	0.11	0.32	0.014	0.014	-	509
89	37	9.5-11.0	-	2.71	0.27	0.29	-	-	122	2677*
90	8	5.0-6.5	2.88	2.74	0.72	1.23	0.052	0.049	-	490
90	14	6.5-8.0	-	2.74	0.03	0.39	-	-	46	1005*
90	25	8.0-9.0	2.82	2.78	0.18	0.48	0.013	0.013	-	662
91	9	8.0-9.5	2.83	2.70	0.87	2.14	0.049	0.047	-	243
91	13	8.0-9.5	-	2.60	0.16	2.15	-	-	54	1181*
91	29	12.0-13.0	2.82	2.71	0.30	0.49	0.042	0.040	-	459
92	57	22.0-23.5	2.84	2.77	0.15	0.35	0.027	0.026	-	534
92	58	22.0-23.5	2.83	2.76	0.20	0.68	0.026	0.026	-	640

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
92	65	23.5-25.0	-	2.66	0.89	1.20	-	-	70	1549*
96	8	14.0-15.5	2.77	2.72	0.14	0.40	0.018	0.018	97	2124*
97	5	6.5-8.0	-	2.88	0.09	0.60	-	-	169	3720*
97	12	8.0-9.5	2.76	2.68	0.11	0.85	0.030	0.029	158	3469*
97	22	12.5-14.0	-	2.83	0.09	0.21	-	-	279	6133*
97	24	14.0-15.5	-	2.66	0.15	0.31	-	-	255	5600*
97	26	14.0-15.5	2.83	2.73	0.13	0.20	0.037	0.035	100	2188*
97	27	15.5-17.0	-	2.70	0.08	0.41	-	-	216	4752*
99	13	22.0-23.5	-	2.55	0.13	0.94	-	-	127	2792*
99	14	23.5-25.0	2.79	2.40	0.93	0.99	0.163	0.140	53	1167*

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

Physical Properties of Rock



BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
67	1	14.5-16.0	2.89	2.77	0.15	0.45	0.043	0.042	-	664
	5	16.0-17.5	-	2.38	0.08	1.57	-	-	21	470*
	12	22.0-23.5	-	2.47	0.09	0.15	-	-	63	1394*
68	12	19.0-20.5	2.77	-	0.10	0.16	-	-	-	-
	17	28.0-29.0	-	2.71	-	-	-	-	-	565
	18	29.0-30.0	-	2.44	0.03	0.37	-	-	52	1152*
	20	29.0-30.0	-	2.79	0.09	0.30	-	-	-	548
69	9	17.0-18.5	-	2.84	0.14	0.37	-	-	-	586
	20	21.5-23.0	2.81	-	0.16	0.70	-	-	-	-
	22	21.5-23.0	-	-	-	-	-	-	-	470
	43	25.0-26.5	-	-	0.03	0.25	-	-	-	-
75	17	20.5-22.0	2.74	2.68	0.13	0.33	-	-	212	4661*
	28	23.5-25.0	-	2.54	0.24	1.13	-	-	112	2463*
81	15	11.0-12.5	2.87	2.77	0.11	0.51	0.035	0.034	-	942

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

Physical Properties of Rock

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BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
81	44	15.0-16.0	2.89	2.79	0.15	0.29	0.037	0.035	-	751
82	16	8.0-9.5	-	2.62	0.02	0.50	-	-	88	1932*
	45	14.0-15.5	2.83	2.78	0.06	0.25	0.019	0.019	-	626
	55	16.5-17.5	2.80	2.71	0.09	0.28	0.034	0.033	-	916
	57	16.5-17.5	-	2.90	0.05	0.16	-	-	98	2167*
84	8	7.5-9.0	-	2.84	0.01	0.13	-	-	63	1377*
	15	10.5-12.0	2.81	2.70	0.10	0.30	0.040	0.039	-	220
	21	12.0-13.5	2.86	2.78	0.15	0.46	0.029	0.028	-	696
85	3	7.0-8.5	-	2.63	0.10	1.08	-	-	70	1534*
	48	16.0-17.5	2.80	2.76	0.12	0.42	0.016	0.016	-	504
	50	17.5-19.0	2.81	2.78	0.12	0.58	0.012	0.012	-	1253
86	43	19.5-21.0	2.78	2.75	0.21	0.49	0.011	0.011	-	1182
	45	19.5-21.0	2.71	2.67	0.01	0.44	0.015	0.015	107	2352*
	60	22.0-23.0	-	2.80	0.10	0.17	-	-	-	1380

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

Physical Properties of Rock

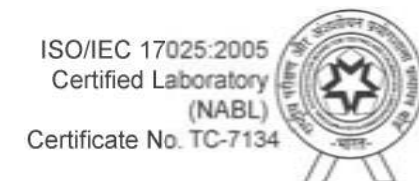
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BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
54	7	10.0-11.5	2.86	2.77	0.12	0.37	0.032	0.031	-	398
	14	11.5-13.0	2.83	2.77	0.25	0.48	0.020	0.020	-	257
	36	20.5-22.0	-	2.59	0.21	1.86	-	-	60	1315*
74	24	9.5-11.0	-	2.72	0.15	0.73	-	-	151	3315*
	33	12.5-14.0	2.84	2.77	0.18	1.10	0.026	0.026	-	848
	40	14.0-15.5	2.86	2.79	0.15	0.30	0.026	0.025	-	742

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

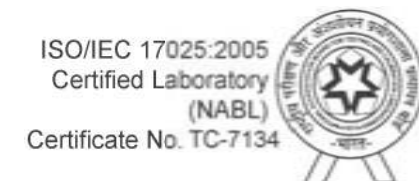
Physical Properties of Rock



BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
4	2	32.5-34.0	2.67	2.20	0.09	0.31	0.214	0.176	52	1137*
	8	34.0-35.0	2.68	2.29	0.08	0.24	0.170	0.146	47	1039*
5	5	27.0-28.5	2.67	2.12	0.32	1.95	0.259	0.206	37	811*
	21	34.0-35.0	2.70	2.19	0.35	1.10	0.233	0.189	16	358*
8	3	31.5-33.0	2.70	2.54	0.73	1.41	0.063	0.126	63	1374*
	15	34.0-35.0	2.82	2.65	0.27	2.31	0.064	0.060	-	373
9	12	21.0-22.5	2.82	2.65	0.02	0.25	0.064	0.060	63	1387*
	17	22.5-24.0	2.83	2.67	0.19	0.33	0.060	0.057	72	1580*
	18	22.5-24.0	2.64	-	0.31	0.87	-	-	-	-
	21	22.5-24.0	2.79	2.64	0.23	2.33	0.057	0.054	-	397
	36	25.5-27.0	2.74	2.24	0.68	1.38	0.223	0.446	61	1344*
	37	25.5-27.0	2.65	2.44	0.21	0.83	0.086	0.079	47	1027*

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

Physical Properties of Rock



BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
9	44	27.0-28.5	2.65	-	0.03	1.14	-	-	-	-
	48	27.0-28.5	2.71	2.69	0.16	0.41	0.007	0.007	-	533
	50	28.5-30.0	2.64	2.62	0.05	0.31	0.008	0.008	54	1189*
	53	28.5-30.0	2.64	-	0.05	0.20	-	-	-	-
	55	28.5-30.0	2.77	2.69	0.02	0.11	0.030	0.029	-	520
	57	28.5-30.0	2.76	2.66	0.06	0.32	0.038	0.036	57	1262*
11	4	19.0-20.5	2.63	-	0.03	0.09	-	-	-	-
	7	19.0-20.5	2.94	2.84	0.21	1.41	0.035	0.034	64	1417*
	12	20.5-22.0	2.83	2.65	0.10	0.46	0.068	0.064	76	1670*
	13	20.5-22.0	2.66	2.48	0.18	0.29	0.071	0.066	61	1341*
	18	22.0-23.5	2.65	2.62	0.06	0.15	0.012	0.012	72	1582*
	22	23.5-25.0	2.64	-	0.08	0.19	-	-	-	-
	26	23.5-25.0	2.72	2.64	0.18	0.42	0.030	0.029	51	1114*
	29	23.5-25.0	2.68	-	0.21	0.31	-	-	-	-
	31	25.0-26.5	2.75	2.66	0.03	0.17	0.034	0.033	61	1351*

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

Physical Properties of Rock

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BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
15	4	19.5-21.0	-	2.28	0.09	0.25	-	-	35	771*
	7	21.0-22.5	2.74	2.44	0.14	0.45	0.123	0.109	-	372
	13	24.0-25.5	-	2.52	0.03	0.08	-	-	57	1244*
16	9	31.0-32.5	2.64	2.45	0.52	2.06	0.077	0.071	18	398*
	15	32.5-34.0	2.65	2.27	0.69	1.36	0.166	0.143	-	-
25	13	28.0-29.5	-	2.45	0.23	1.81	-	-	64	1399*
	19	28.0-29.5	-	2.38	0.29	1.85	-	-	7	155*
	22	29.5-31.0	-	2.33	0.21	2.46	-	-	4	78*
34	11	26.5-28.0	-	2.65	0.94	3.06	-	-	25	551*
	34	32.5-34.0	-	2.44	0.58	0.71	-	-	28	622*
	38	34.0-35.0	-	2.43	0.23	1.78	-	-	21	473*
48	17	16.0-17.5	2.79	2.44	0.28	1.39	0.144	0.126	-	288
	19	17.5-19.0	2.81	2.51	0.26	1.06	0.120	0.107	-	364
	21	17.5-19.0	-	2.56	0.27	0.85	-	-	35	780*
49	3	10.5-12.0	-	2.68	0.05	0.66	-	-	70	1532*

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

Physical Properties of Rock

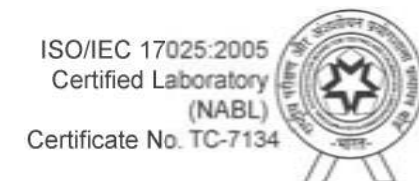
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BH. No.	Rock Sample No.	Depth, (m)	IS : 2720 (Part-3)-1980, RA-2007	IS : 13030-1991, RA-2006			By Calculations		IS : 8764-1998, RA-2008	IS : 9143-1979, RA-2006
			Specific Gravity	Density (gm/cc)	Moisture Content, %	Water Absorption, %	Void Ratio	Porosity	Point Load Index (kg/sq.cm)	Unconfined Compressive Strength (kg/sq.cm)
49	11	12.0-13.5	-	2.69	0.03	0.27	-	-	104	2299*
	16	13.5-15.0	-	2.59	0.11	0.77	-	-	78	1708*
55	20	9.5-11.0	-	2.75	0.06	0.13	-	-	100	2201*
55	22	11.0-12.5	-	2.60	0.03	0.55	-	-	125	2750*
55	48	18.5-20.0	2.79	2.72	0.04	0.43	0.026	0.025	71	1558*

* Equivalent Unconfined Compressive Strength based on Point Load Strength Index

Physical Properties of Rock

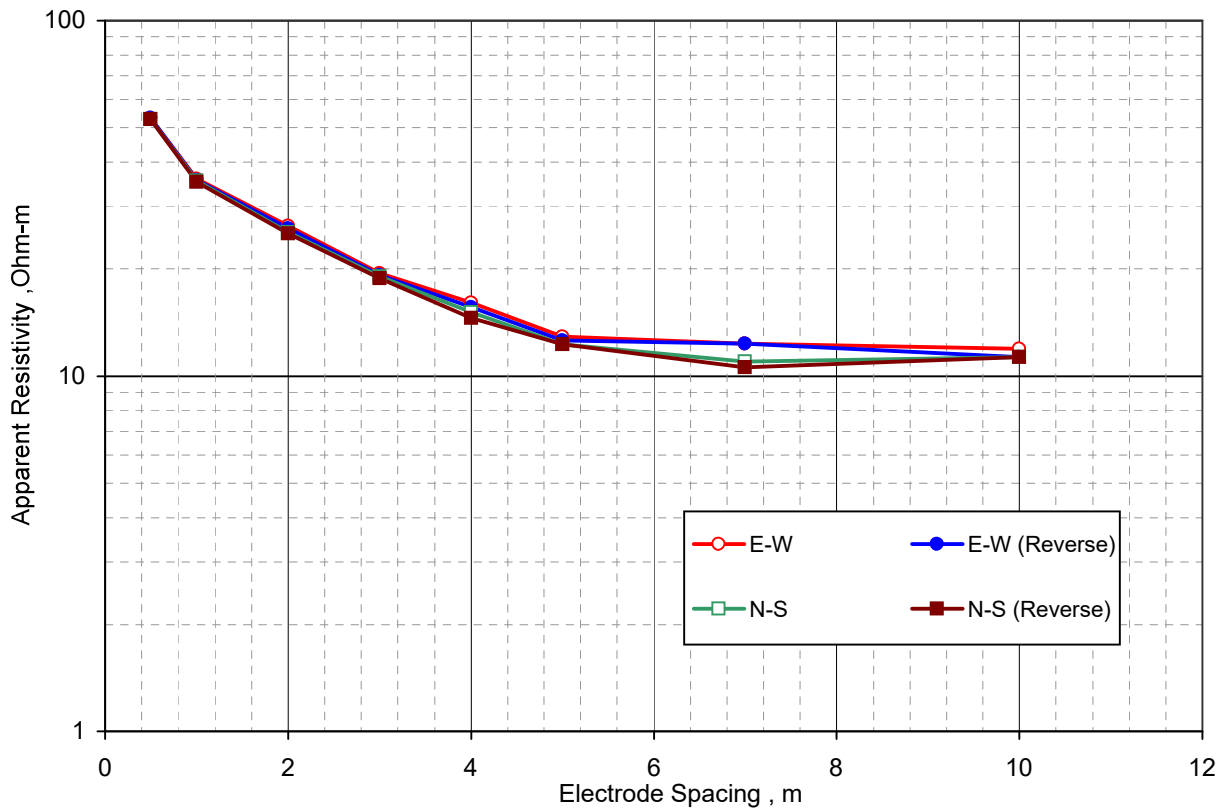




Electrical Resistivity Test No.: ERT-20

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-20
Test Location :	Crushed Coal Stock Pile
Reduced Level :	205.163 m
Co-ordinate :	2581S, 519W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	53.3	53.2	52.8	52.8
1.0	35.9	35.7	35.5	35.2
2.0	26.4	26.0	25.4	25.1
3.0	19.4	19.2	19.0	18.8
4.0	16.1	15.6	15.1	14.6
5.0	12.9	12.6	12.3	12.3
7.0	12.3	12.3	11.0	10.6
10.0	11.9	11.3	11.3	11.3
Mean Resistivity	30	30	30	29

Mean Resistivity Value, ohm-m : 23.7 ohm-m

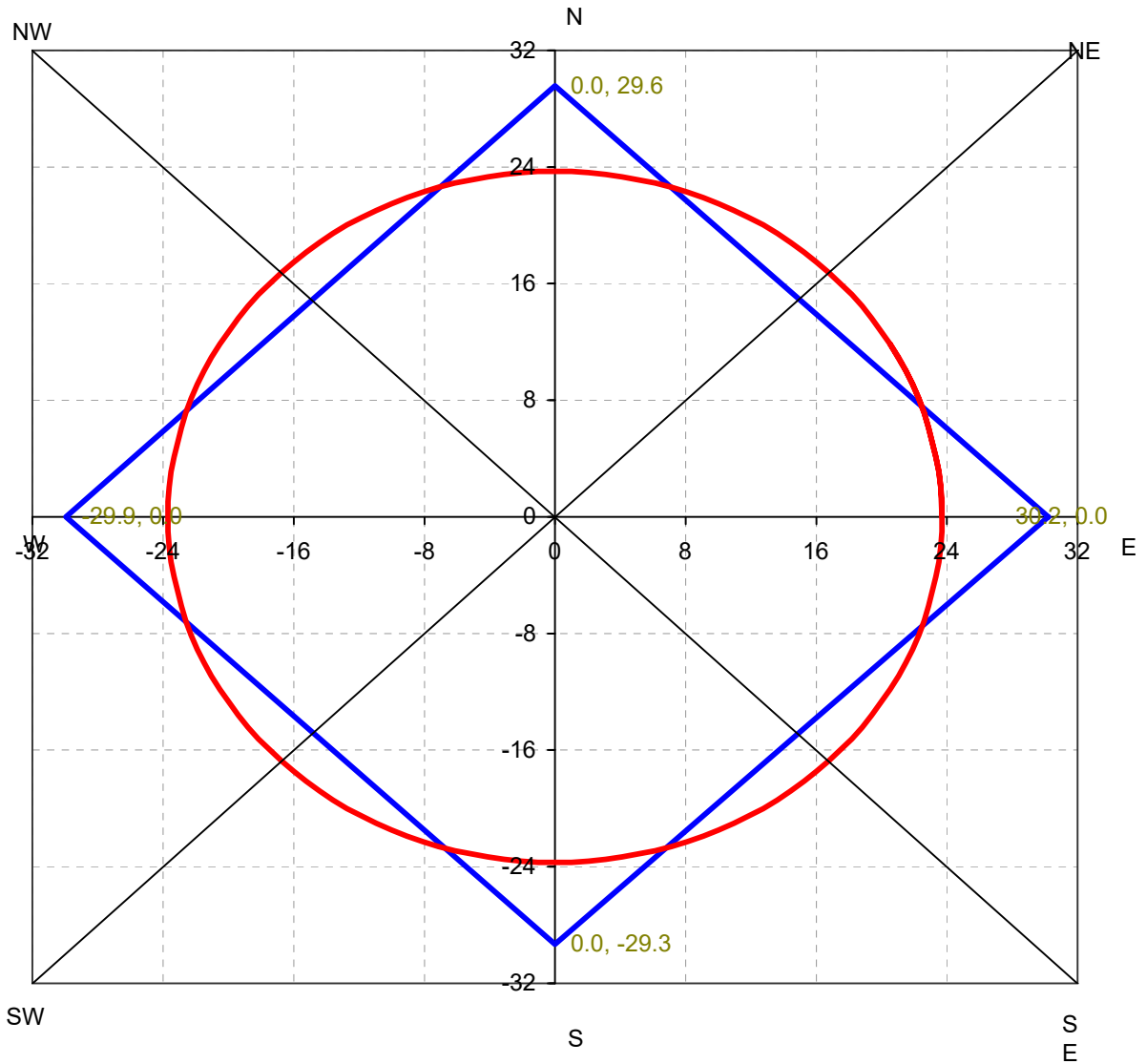
Apparent Resistivity Values (ERT-20)



Electrical Resistivity Test No.: ERT-20

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-20
Test Location :	Crushed Coal Stock Pile
Reduced Level :	205.163 m
Co-ordinate :	2581S, 519W



Total Area of Polygon : 1771

Radius of Equivalent Circle=Mean Resistivity : 24 ohm-m

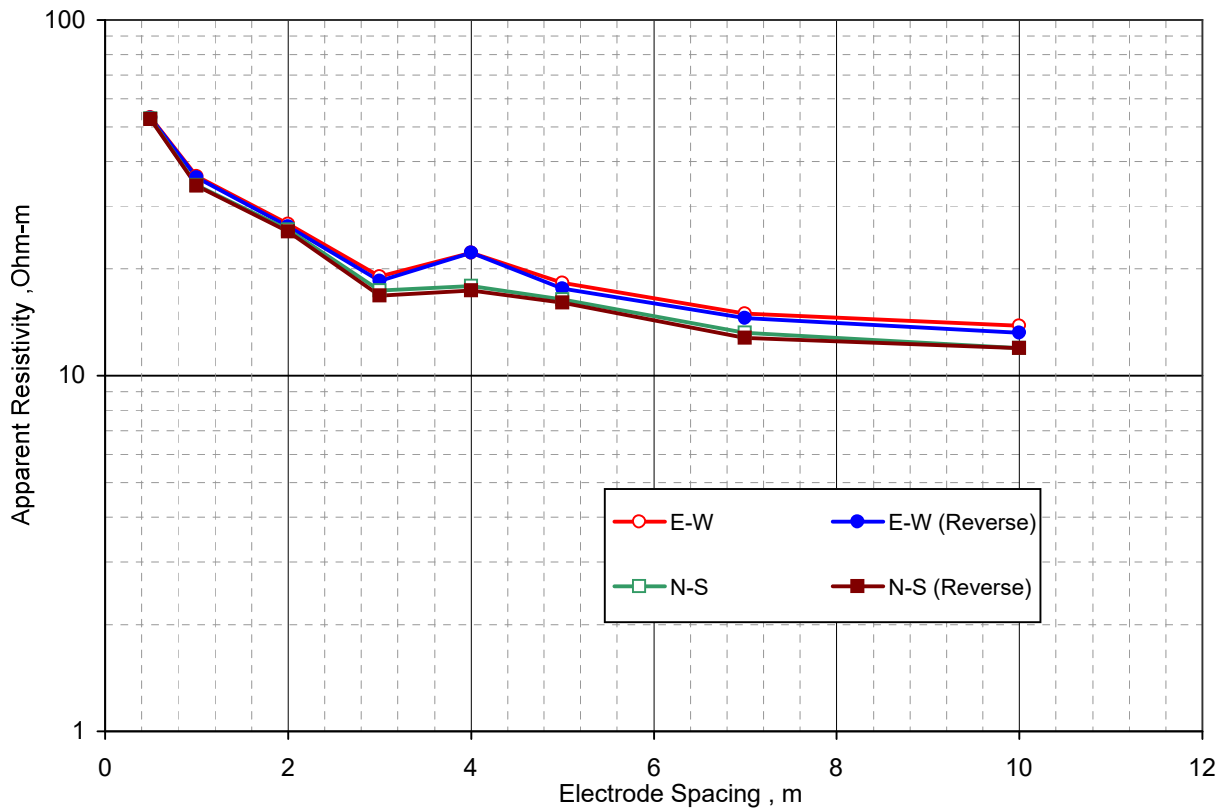
Polar Resistivity Curves (ERT-20)



Electrical Resistivity Test No.: ERT-21

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-21
Test Location :	Crushed Coal Stock Pile
Reduced Level :	205.705 m
Co-ordinate :	1952S, 429W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	53.2	53.1	52.8	52.6
1.0	36.4	36.1	34.4	34.2
2.0	26.6	26.3	25.8	25.4
3.0	19.0	18.5	17.3	16.8
4.0	22.1	22.1	17.8	17.3
5.0	18.2	17.6	16.3	16.0
7.0	15.0	14.5	13.2	12.8
10.0	13.8	13.2	11.9	11.9
Mean Resistivity	31	31	30	29

Mean Resistivity Value, ohm-m : 24.2 ohm-m

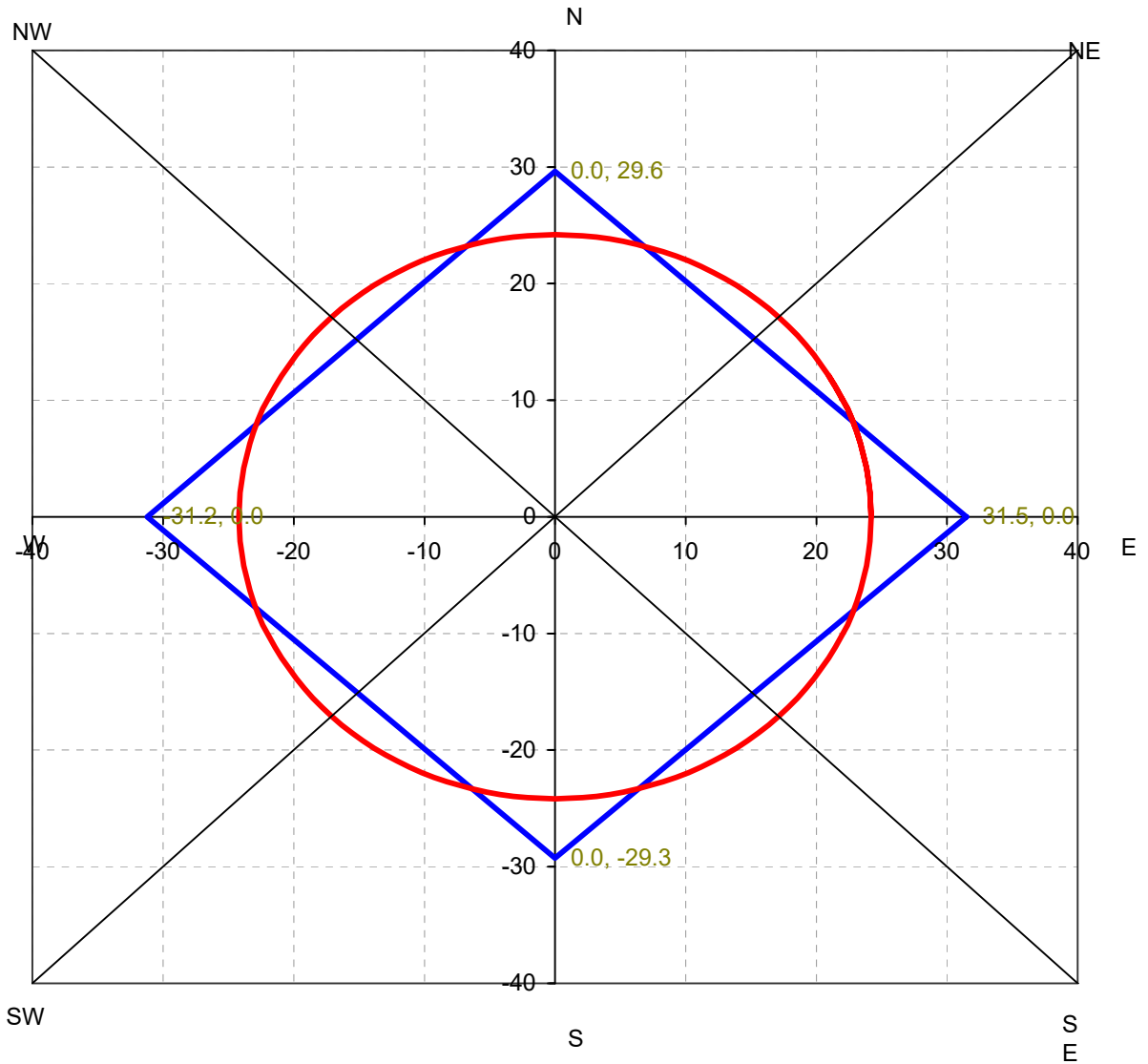
Apparent Resistivity Values (ERT-21)



Electrical Resistivity Test No.: ERT-21

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-21
Test Location : Crushed Coal Stock Pile
Reduced Level : 205.705 m
Co-ordinate : 1952S, 429W



Total Area of Polygon : 1846

Radius of Equivalent Circle=Mean Resistivity : 24 ohm-m

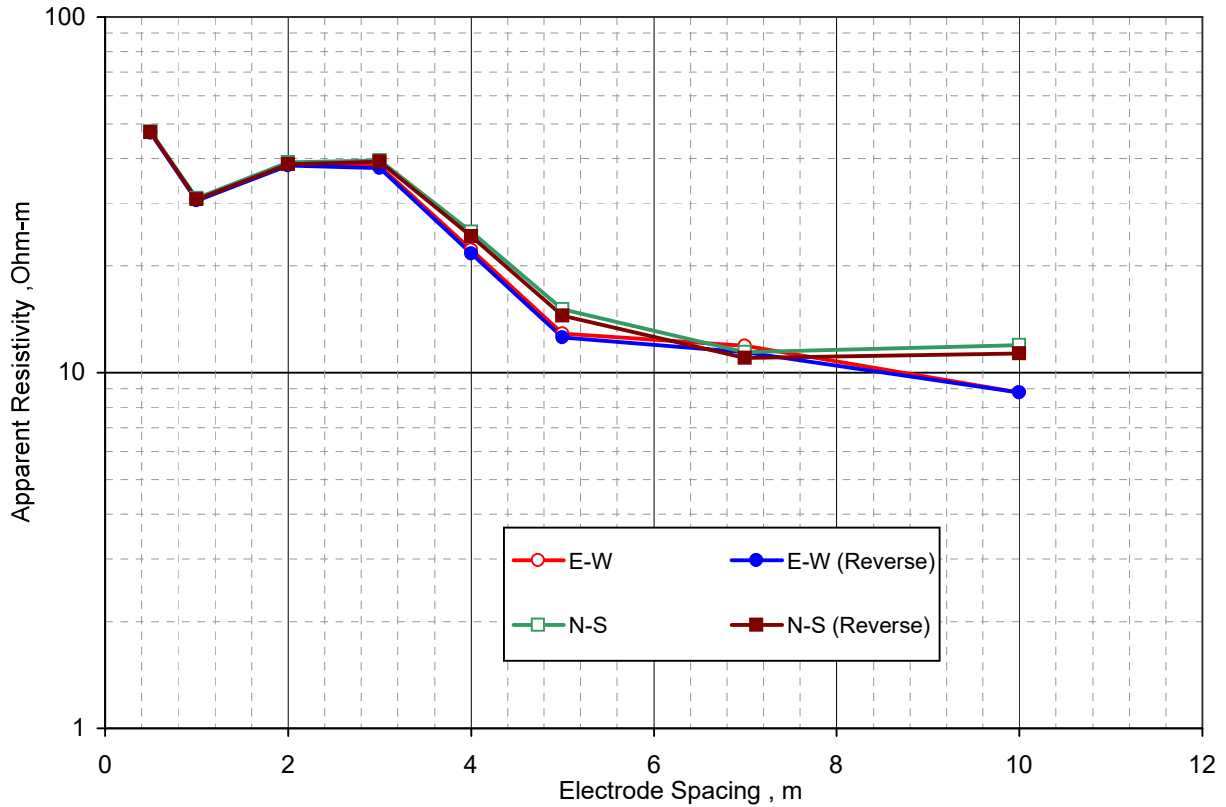
Polar Resistivity Curves (ERT-21)



Electrical Resistivity Test No.: ERT-22

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-22
Test Location :	WTP area (Stage-II)
Reduced Level :	203.279 m
Co-ordinate :	2014S, 352W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	47.4	47.2	47.7	47.5
1.0	30.7	30.4	30.9	30.7
2.0	38.7	38.3	39.1	38.6
3.0	38.1	37.7	39.6	39.2
4.0	22.1	21.6	24.9	24.1
5.0	12.9	12.6	15.1	14.5
7.0	11.9	11.4	11.4	11.0
10.0	8.8	8.8	11.9	11.3
Mean Resistivity	35	35	36	36

Mean Resistivity Value, ohm-m : 28.5 ohm-m

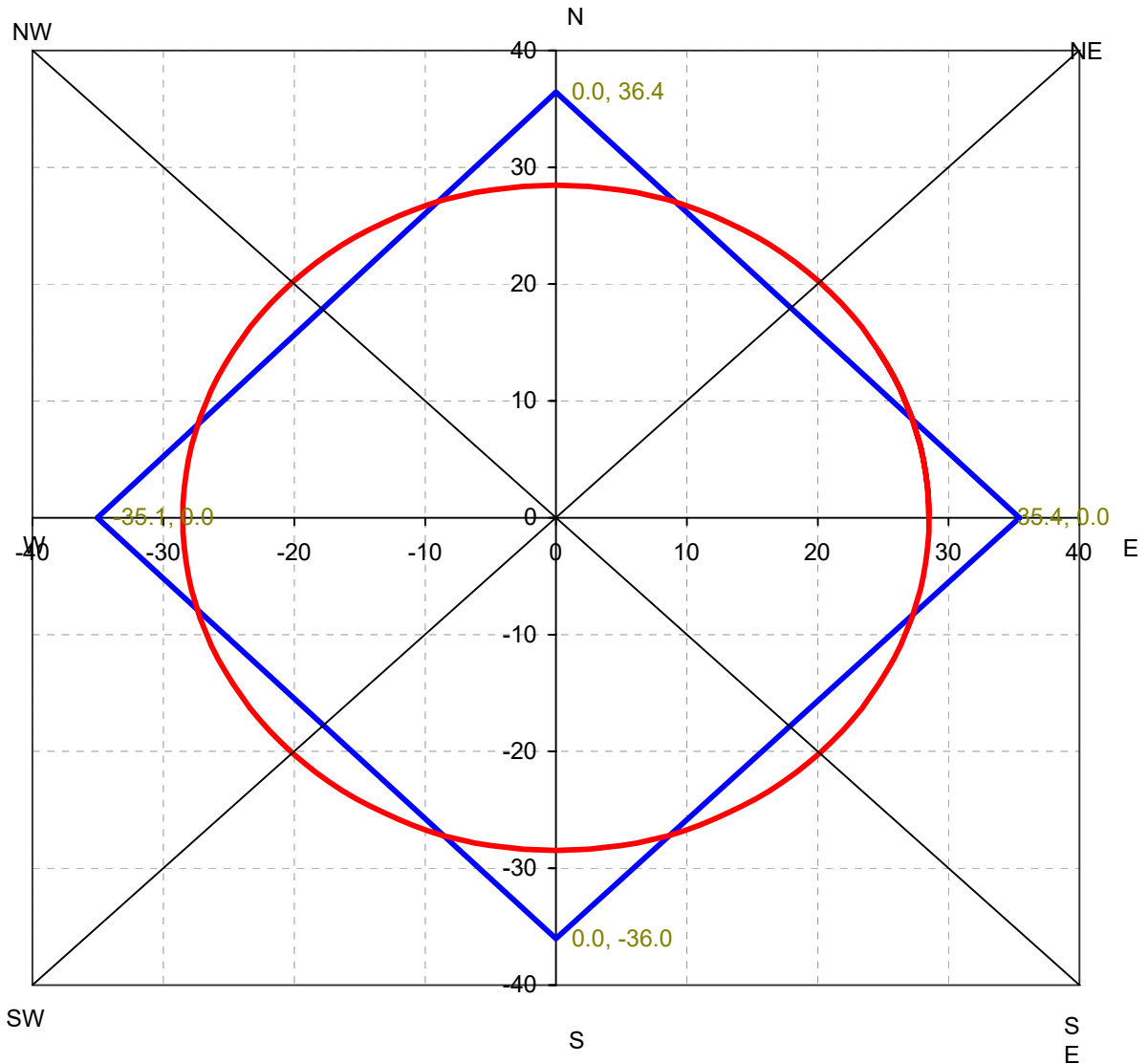
Apparent Resistivity Values (ERT-22)



Electrical Resistivity Test No.: ERT-22

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-22
Test Location : WTP area (Stage-II)
Reduced Level : 203.279 m
Co-ordinate : 2014S, 352W



Total Area of Polygon : 2552

Radius of Equivalent Circle=Mean Resistivity : 29 ohm-m

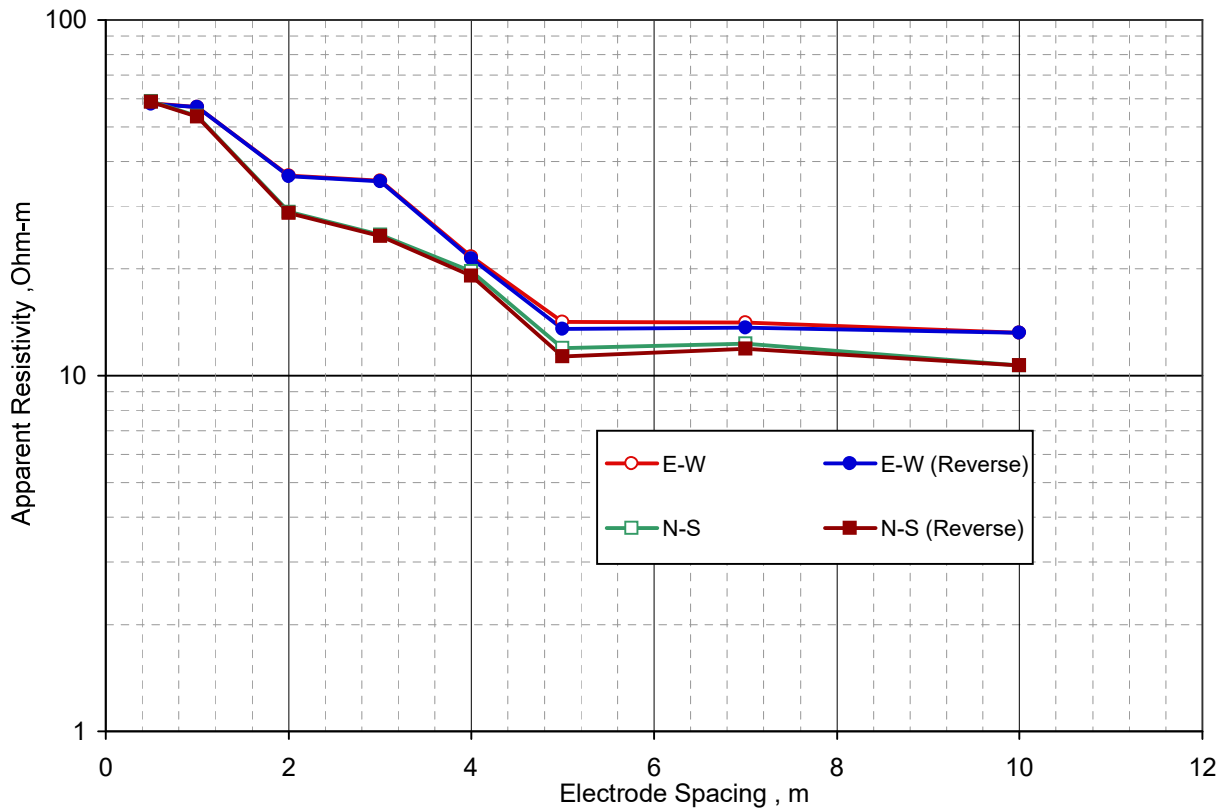
Polar Resistivity Curves (ERT-22)



Electrical Resistivity Test No.: ERT-1

IS: 3043-1987, RA-2006

Test Details	
Test Designation : ERT-1	
Test Location : Space for Future Provision	
Reduced Level : 209.149 m	
Co-ordinate : 2531S, 1929W	



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	58.4	58.1	59.1	58.9
1.0	57.0	56.9	53.7	53.5
2.0	36.6	36.4	28.9	28.7
3.0	35.4	35.2	24.9	24.7
4.0	21.6	21.4	19.6	19.1
5.0	14.1	13.5	11.9	11.3
7.0	14.1	13.6	12.3	11.9
10.0	13.2	13.2	10.7	10.7
Mean Resistivity	42	42	37	37

Mean Resistivity Value, ohm-m : 31.4 ohm-m

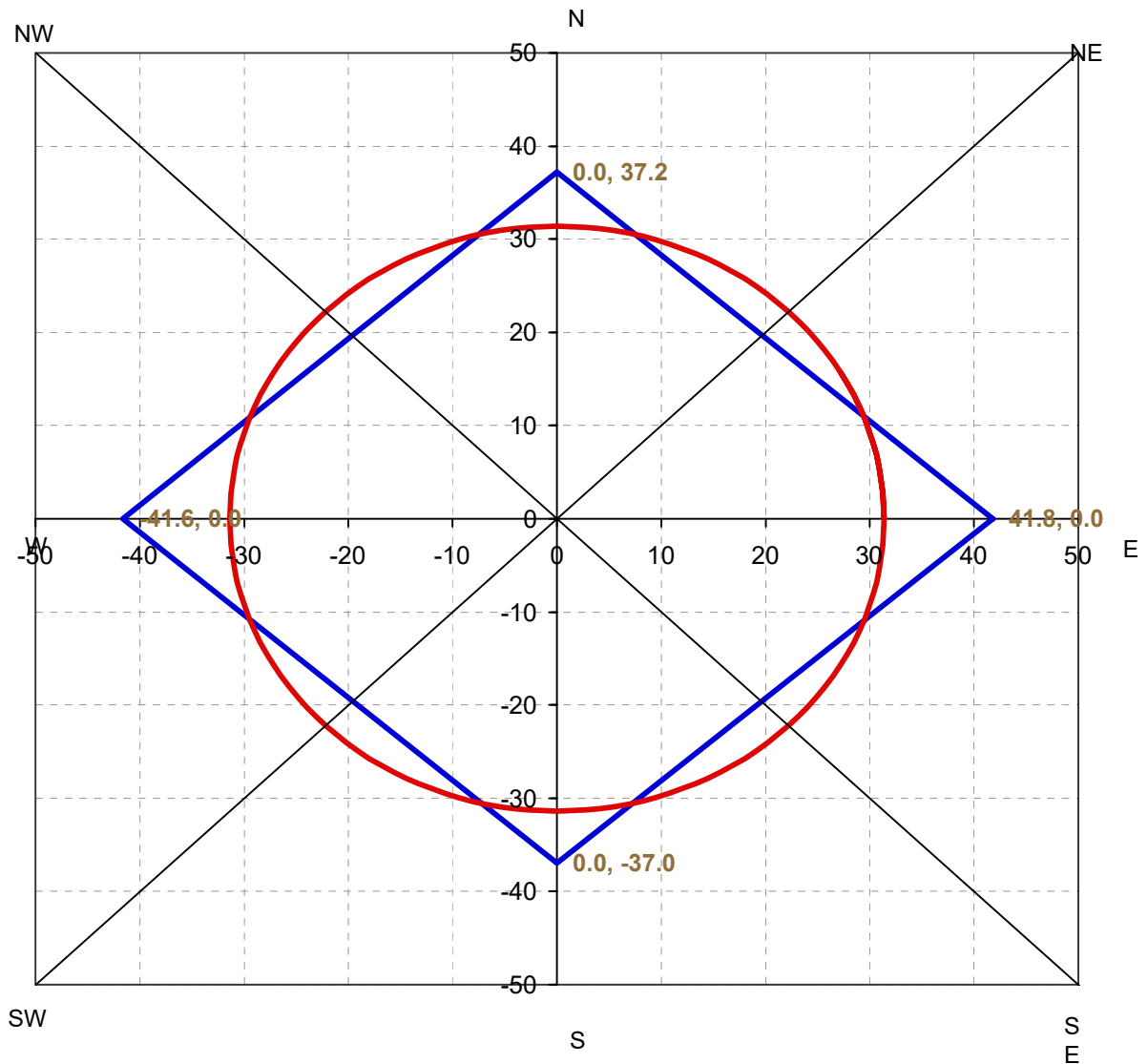
Apparent Resistivity Values (ERT-1)



Electrical Resistivity Test No.: ERT-1

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-1
Test Location : Space for Future Provision
Reduced Level : 209.149 m
Co-ordinate : 2531S, 1929W



Total Area of Polygon : 3095

Radius of Equivalent Circle=Mean Resistivity : 31 ohm-m

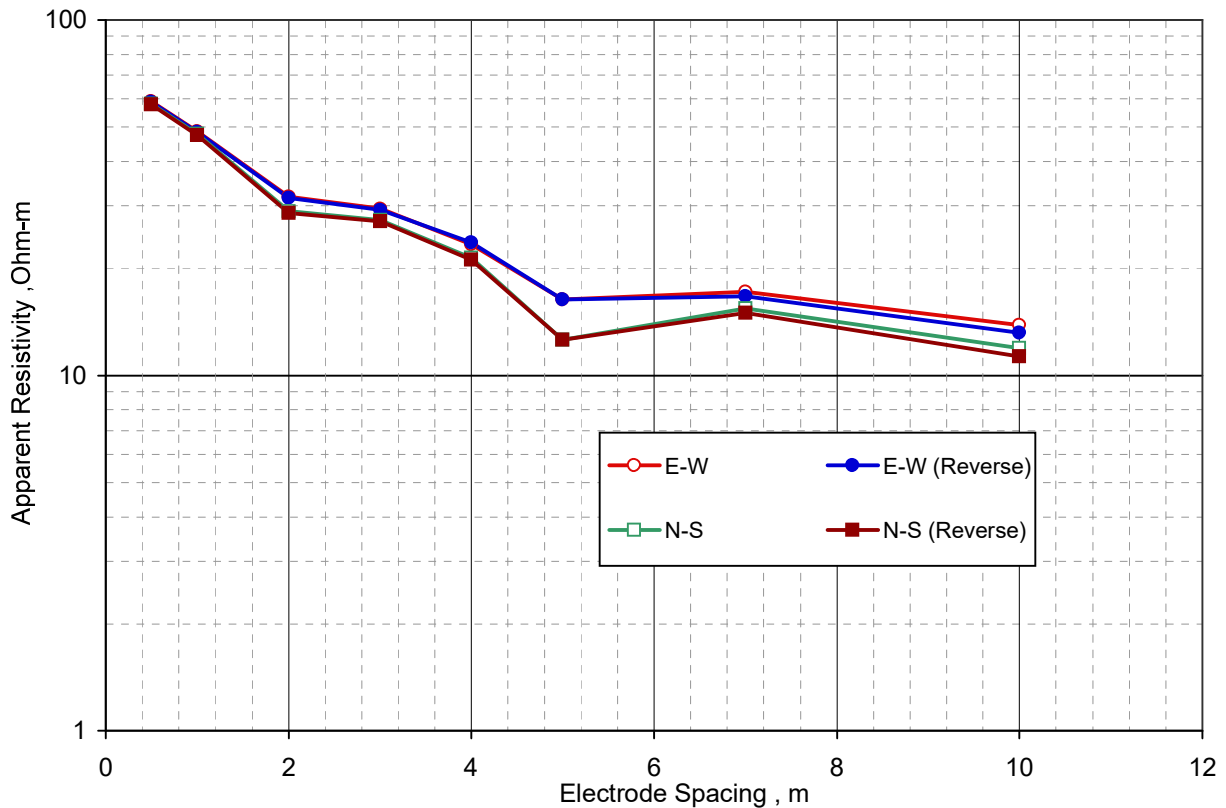
Polar Resistivity Curves (ERT-1)



Electrical Resistivity Test No.: ERT-2

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-2
Test Location :	Space for Future Provision
Reduced Level :	205.084 m
Co-ordinate :	2234S, 1753W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	59.1	58.9	58.1	57.9
1.0	48.6	48.4	47.9	47.5
2.0	31.8	31.5	28.9	28.7
3.0	29.4	29.2	27.3	27.1
4.0	23.4	23.6	21.4	21.1
5.0	16.3	16.3	12.6	12.6
7.0	17.2	16.7	15.4	15.0
10.0	13.8	13.2	11.9	11.3
Mean Resistivity	38	38	37	36

Mean Resistivity Value, ohm-m : 29.9 ohm-m

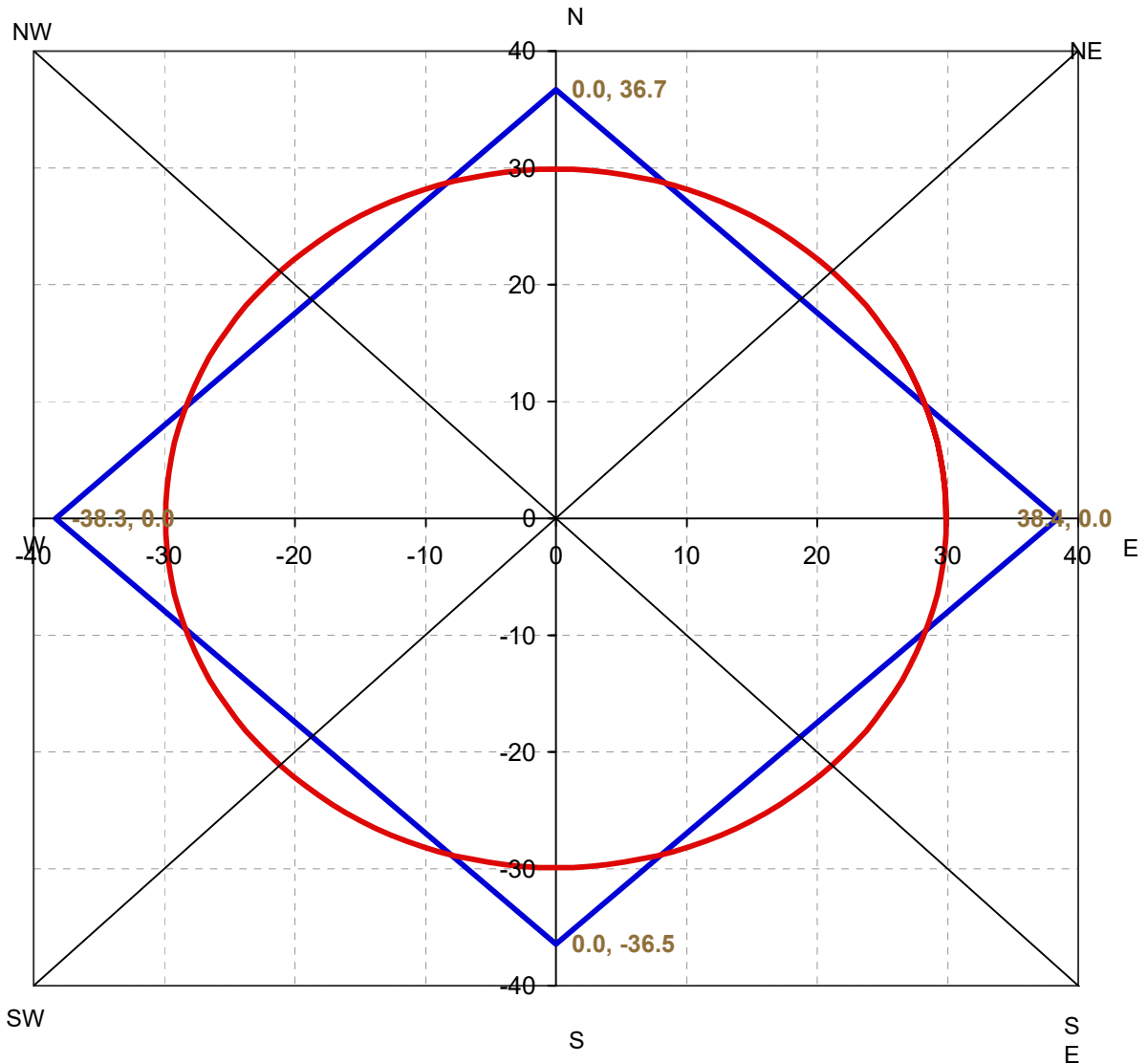
Apparent Resistivity Values (ERT-2)



Electrical Resistivity Test No.: ERT-2

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-2
Test Location : Space for Future Provision
Reduced Level : 205.084 m
Co-ordinate : 2234S, 1753W



Total Area of Polygon : 2809

Radius of Equivalent Circle=Mean Resistivity : 30 ohm-m

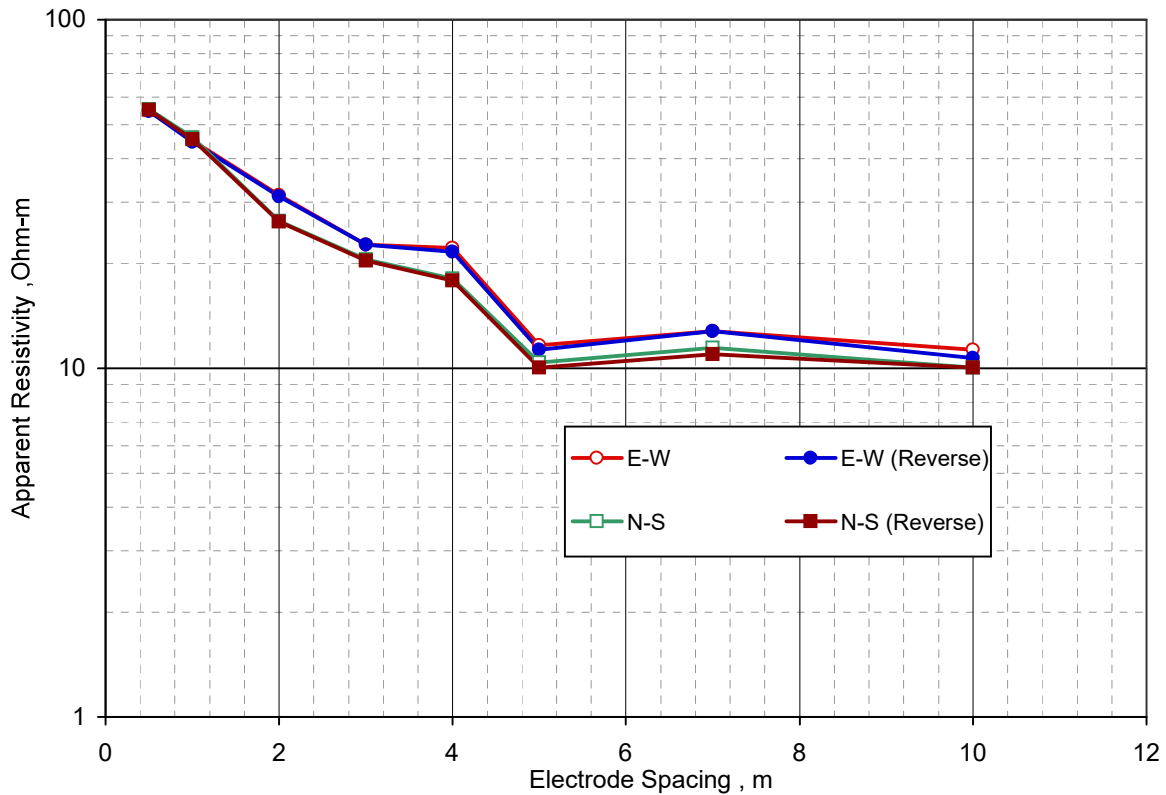
Polar Resistivity Curves (ERT-2)



Electrical Resistivity Test No.: ERT-4

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-4
Test Location :	Space for Future Provision
Reduced Level :	206.211 m
Co-ordinate :	2548S, 1636W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	54.9	54.6	55.3	55.0
1.0	44.9	44.5	45.9	45.4
2.0	31.4	31.2	26.4	26.3
3.0	22.6	22.6	20.5	20.4
4.0	22.1	21.6	18.1	17.8
5.0	11.6	11.3	10.4	10.1
7.0	12.8	12.8	11.4	11.0
10.0	11.3	10.7	10.1	10.1
Mean Resistivity	35	35	33	33

Mean Resistivity Value, ohm-m : 27.2 ohm-m

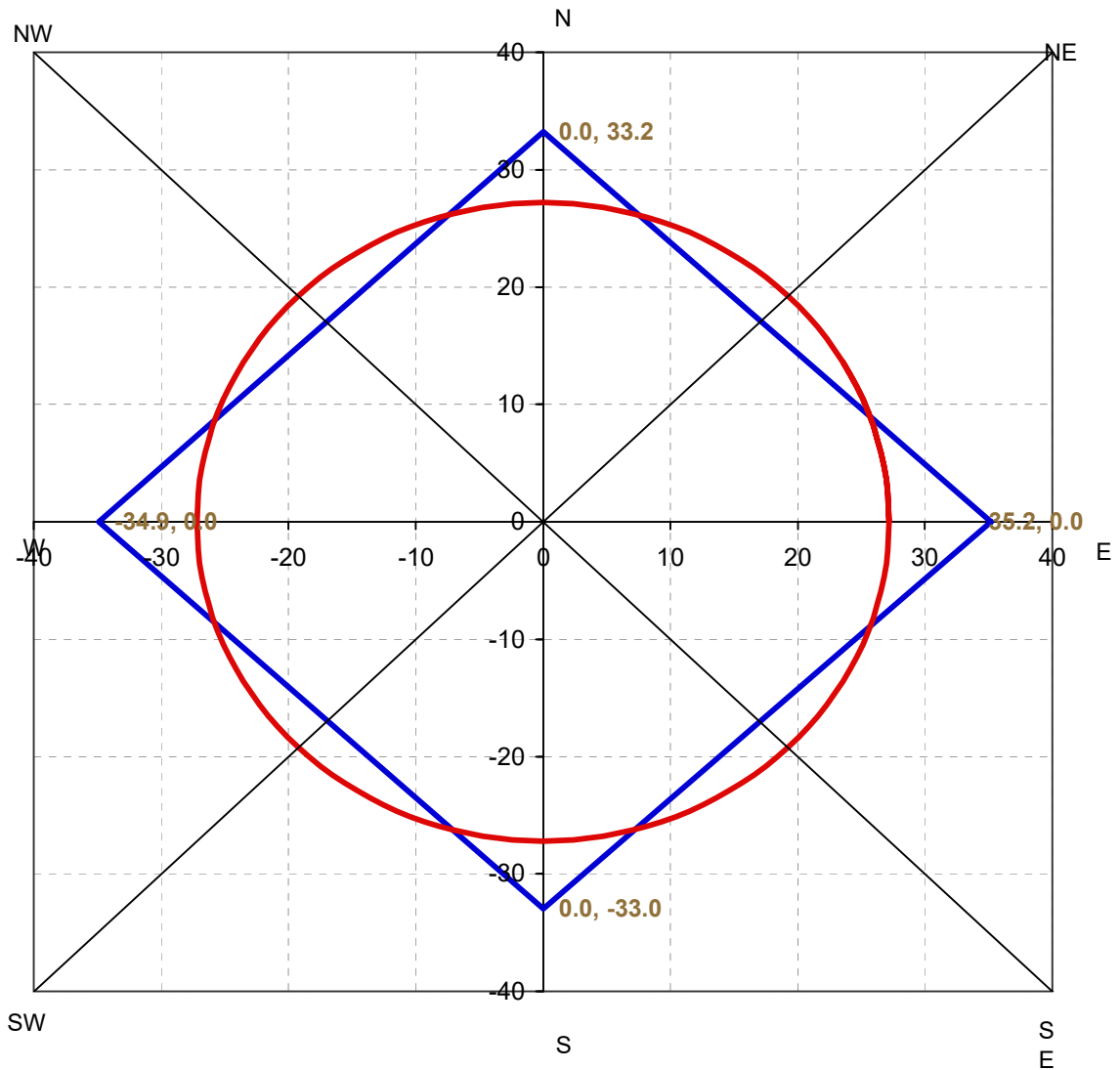
Apparent Resistivity Values (ERT-4)



Electrical Resistivity Test No.: ERT-4

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-4
Test Location : Space for Future Provision
Reduced Level : 206.211 m
Co-ordinate : 2548S, 1636W



Total Area of Polygon : 2321

Radius of Equivalent Circle=Mean Resistivity : 27 ohm-m

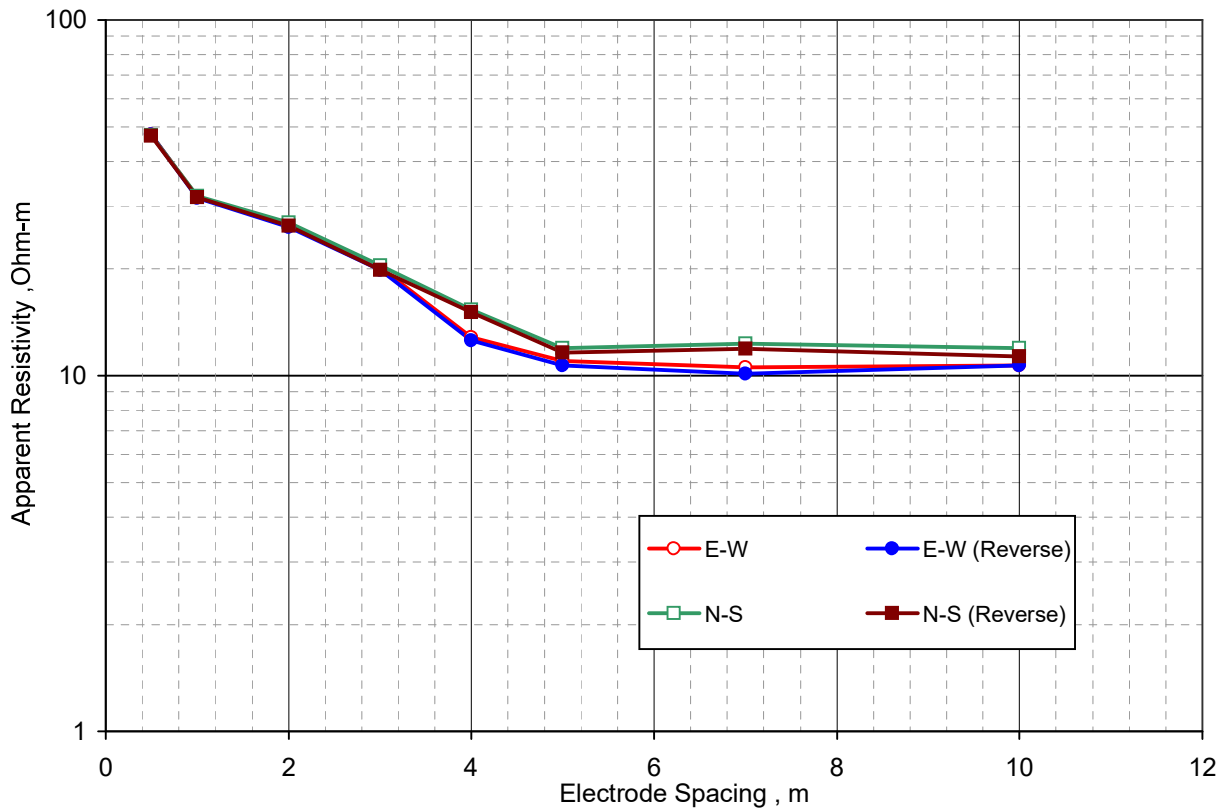
Polar Resistivity Curves (ERT-4)



Electrical Resistivity Test No.: ERT-25

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-25
Test Location :	ACW
Reduced Level :	203.449 m
Co-ordinate :	1814S, 1454W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	47.7	47.6	47.4	47.2
1.0	31.9	31.7	32.0	31.8
2.0	26.4	26.1	26.9	26.4
3.0	20.2	19.8	20.4	19.8
4.0	12.8	12.6	15.3	15.1
5.0	11.0	10.7	11.9	11.6
7.0	10.6	10.1	12.3	11.9
10.0	10.7	10.7	11.9	11.3
Mean Resistivity	28	28	28	28

Mean Resistivity Value, ohm-m : 22.3 ohm-m

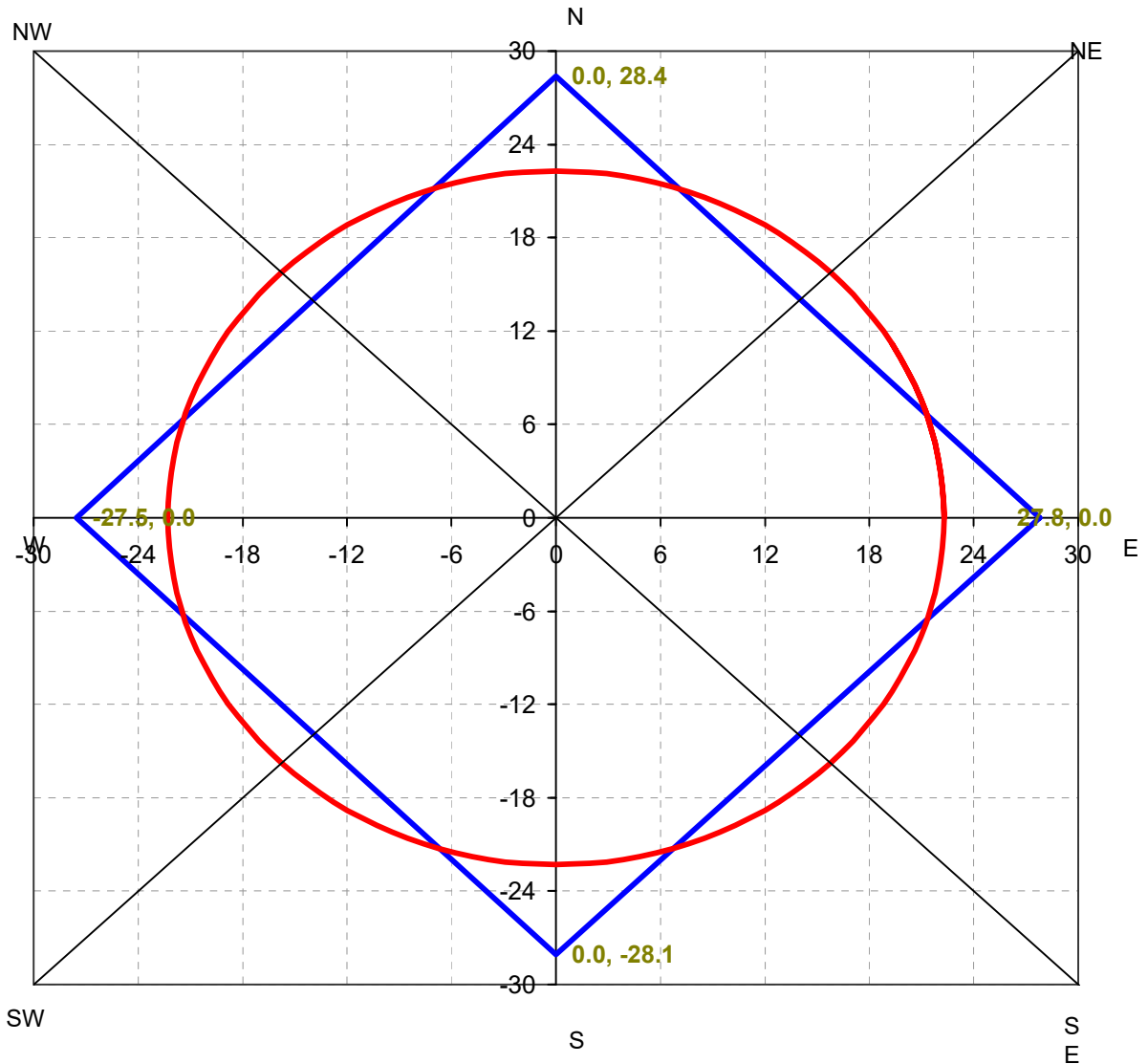
Apparent Resistivity Values (ERT-25)



Electrical Resistivity Test No.: ERT-25

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-25
Test Location : ACW
Reduced Level : 203.449 m
Co-ordinate : 1814S, 1454W



Total Area of Polygon : 1563

Radius of Equivalent Circle=Mean Resistivity : 22 ohm-m

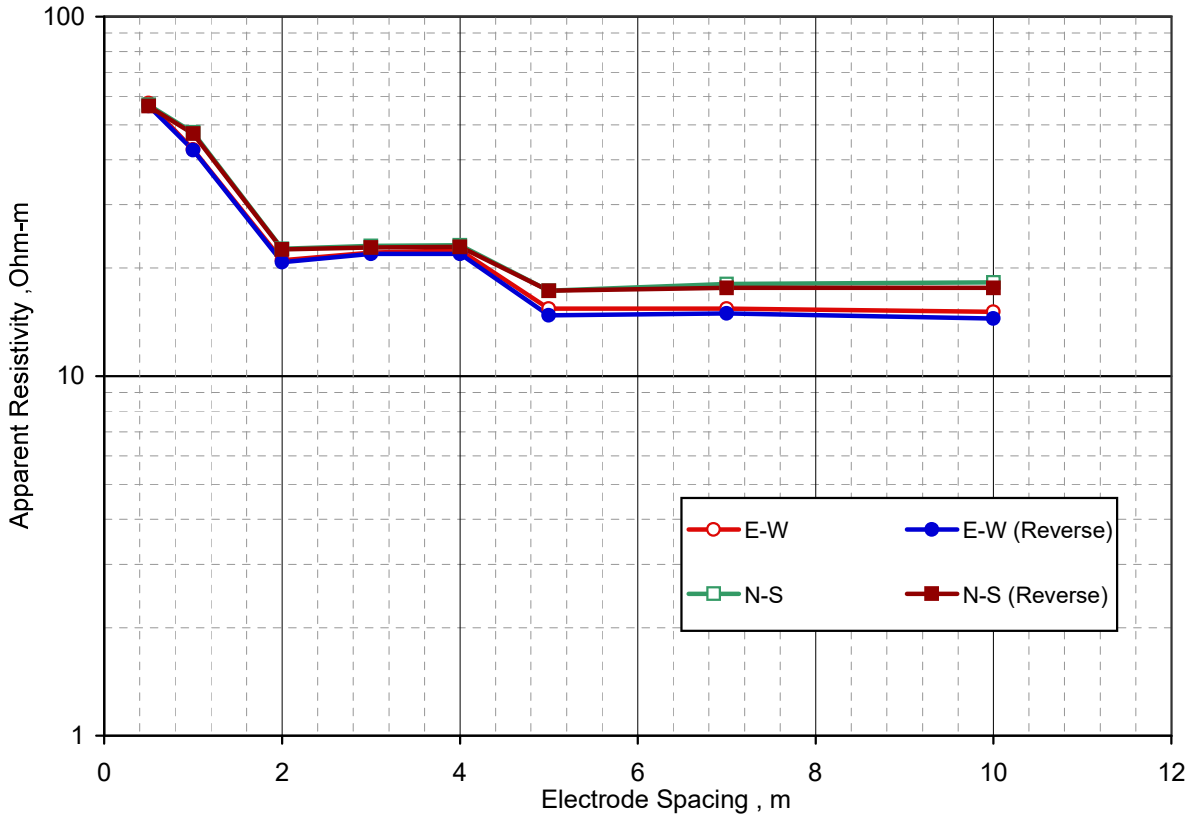
Polar Resistivity Curves (ERT-25)



Electrical Resistivity Test No.: ERT-3

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-3
Test Location :	Space for Future Provision
Reduced Level :	207.776 m
Co-ordinate :	2340S, 1546W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	57.5	56.5	56.9	56.3
1.0	42.7	42.6	47.6	47.2
2.0	21.0	20.7	22.6	22.5
3.0	22.1	21.9	23.0	22.8
4.0	22.4	21.9	23.1	22.9
5.0	15.4	14.8	17.3	17.3
7.0	15.4	15.0	18.0	17.6
10.0	15.1	14.5	18.2	17.6
Mean Resistivity	33	33	35	34

Mean Resistivity Value, ohm-m : 26.9 ohm-m

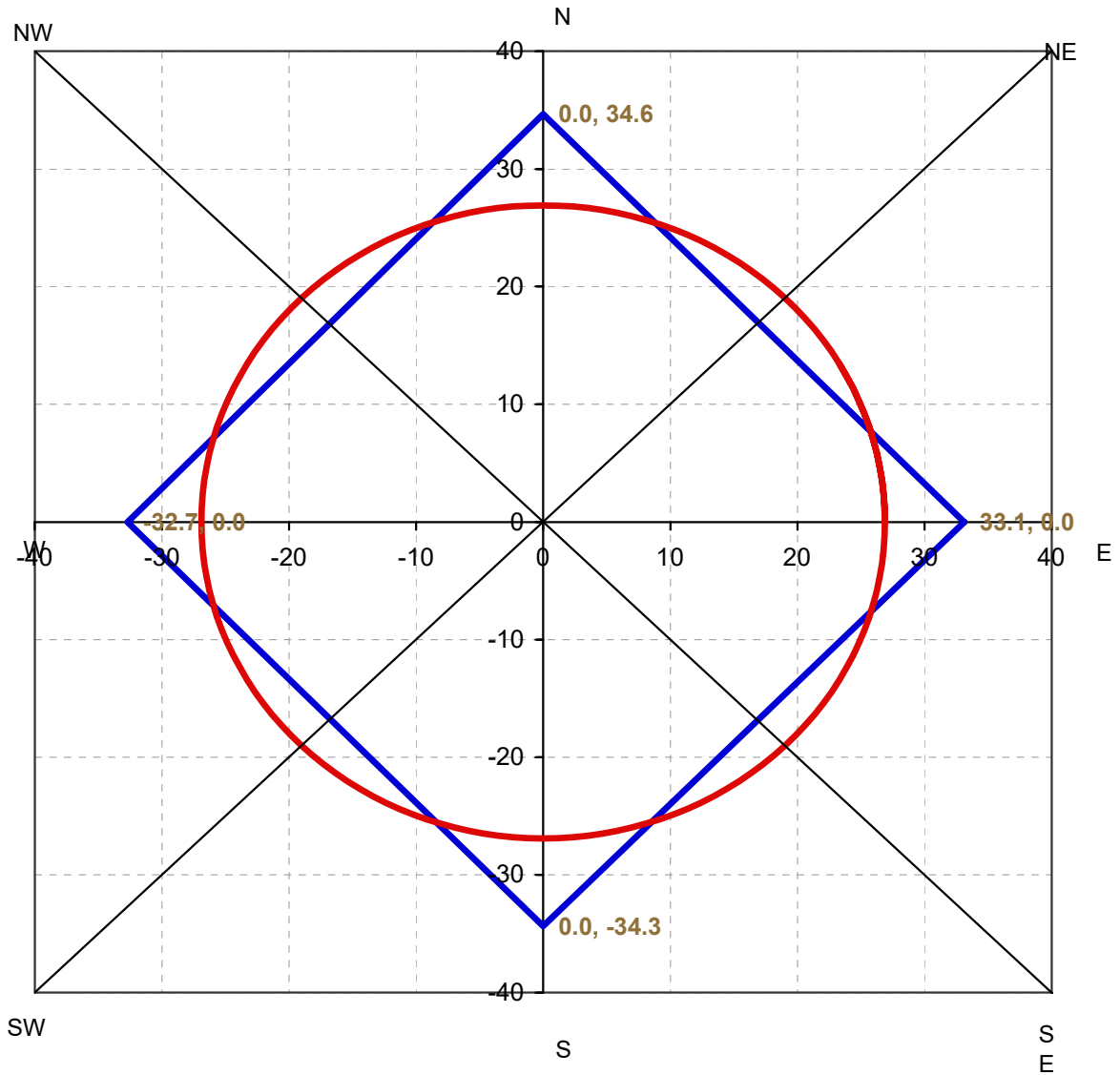
Apparent Resistivity Values (ERT-3)



Electrical Resistivity Test No.: ERT-3

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-3
Test Location : Space for Future Provision
Reduced Level : 207.776 m
Co-ordinate : 2340S, 1546W



Total Area of Polygon : 2271

Radius of Equivalent Circle=Mean Resistivity : 27 ohm-m

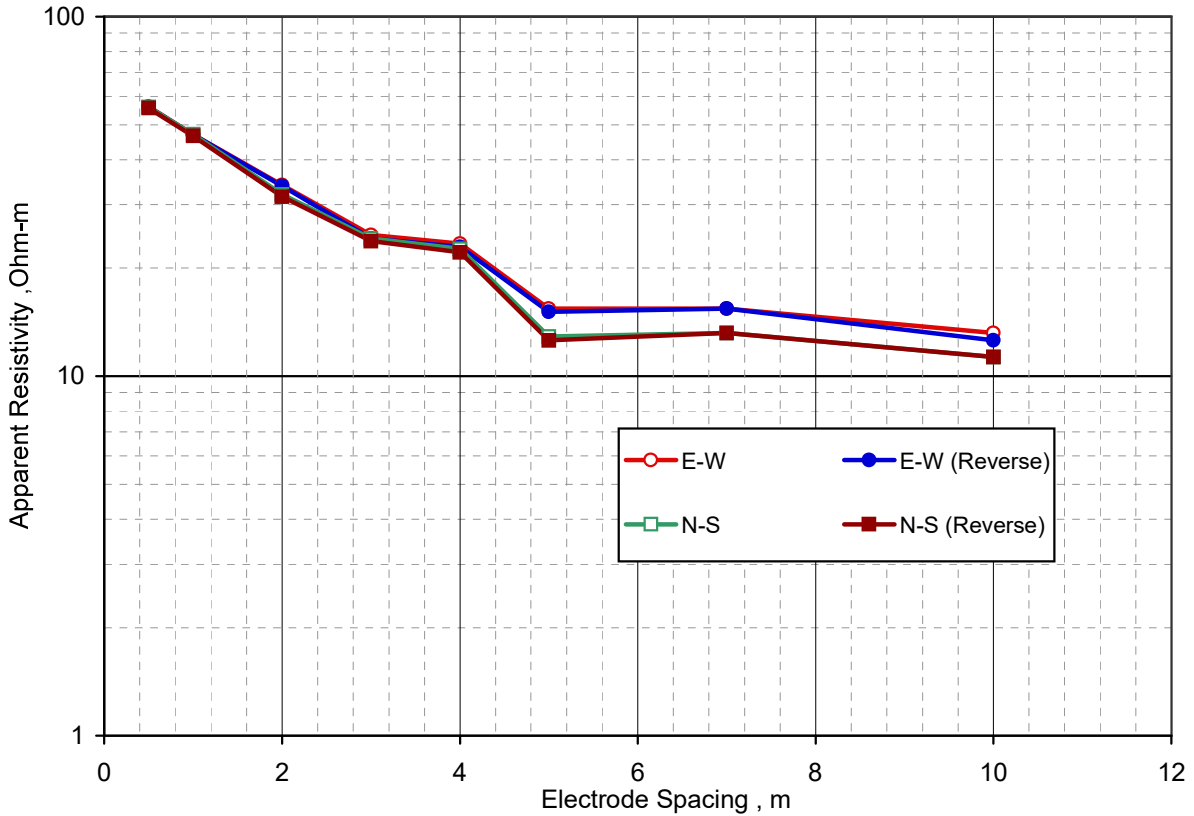
Polar Resistivity Curves (ERT-3)



Electrical Resistivity Test No.: ERT-5

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-5
Test Location :	Space for Future Provision
Reduced Level :	210.299 m
Co-ordinate :	2490S, 1403W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	56.2	56.0	56.0	55.7
1.0	47.1	46.9	47.1	46.6
2.0	34.1	33.8	32.0	31.5
3.0	24.7	24.1	24.1	23.8
4.0	23.4	22.9	22.6	22.1
5.0	15.4	15.1	12.9	12.6
7.0	15.4	15.4	13.2	13.2
10.0	13.2	12.6	11.3	11.3
Mean Resistivity	37	37	36	36

Mean Resistivity Value, ohm-m : 29.1 ohm-m

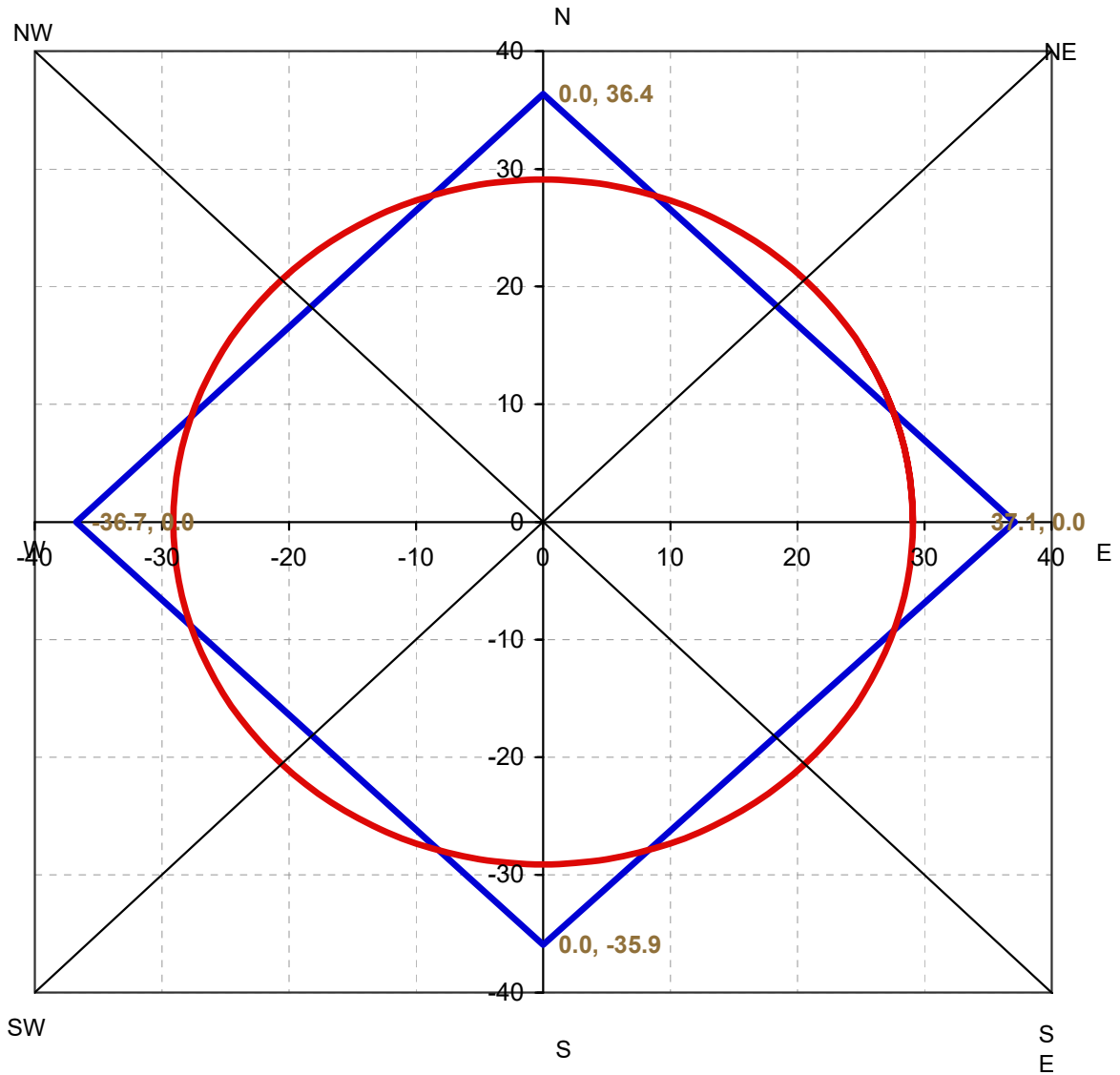
Apparent Resistivity Values (ERT-5)



Electrical Resistivity Test No.: ERT-5

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-5
Test Location : Space for Future Provision
Reduced Level : 210.299 m
Co-ordinate : 2490S, 1403W



Total Area of Polygon : 2669

Radius of Equivalent Circle=Mean Resistivity : 29 ohm-m

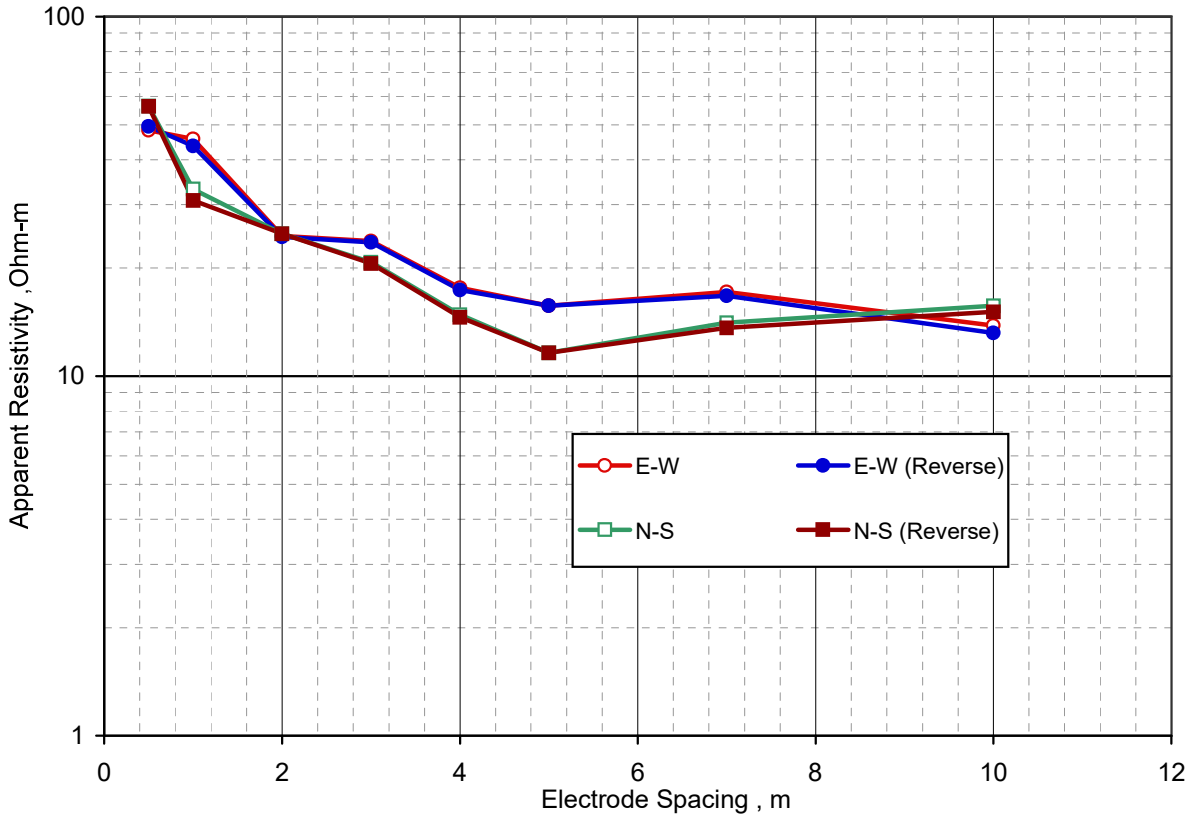
Polar Resistivity Curves (ERT-5)



Electrical Resistivity Test No.: ERT-6

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-6
Test Location :	Space for Future Provision
Reduced Level :	209.311 m
Co-ordinate :	2328S, 1407W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	48.3	49.5	56.4	56.2
1.0	45.7	43.7	33.2	30.8
2.0	24.5	24.4	24.9	24.9
3.0	23.8	23.6	20.7	20.5
4.0	17.6	17.3	14.8	14.6
5.0	15.7	15.7	11.6	11.6
7.0	17.2	16.7	14.1	13.6
10.0	13.8	13.2	15.7	15.1
Mean Resistivity	32	32	30	29

Mean Resistivity Value, ohm-m : 24.5 ohm-m

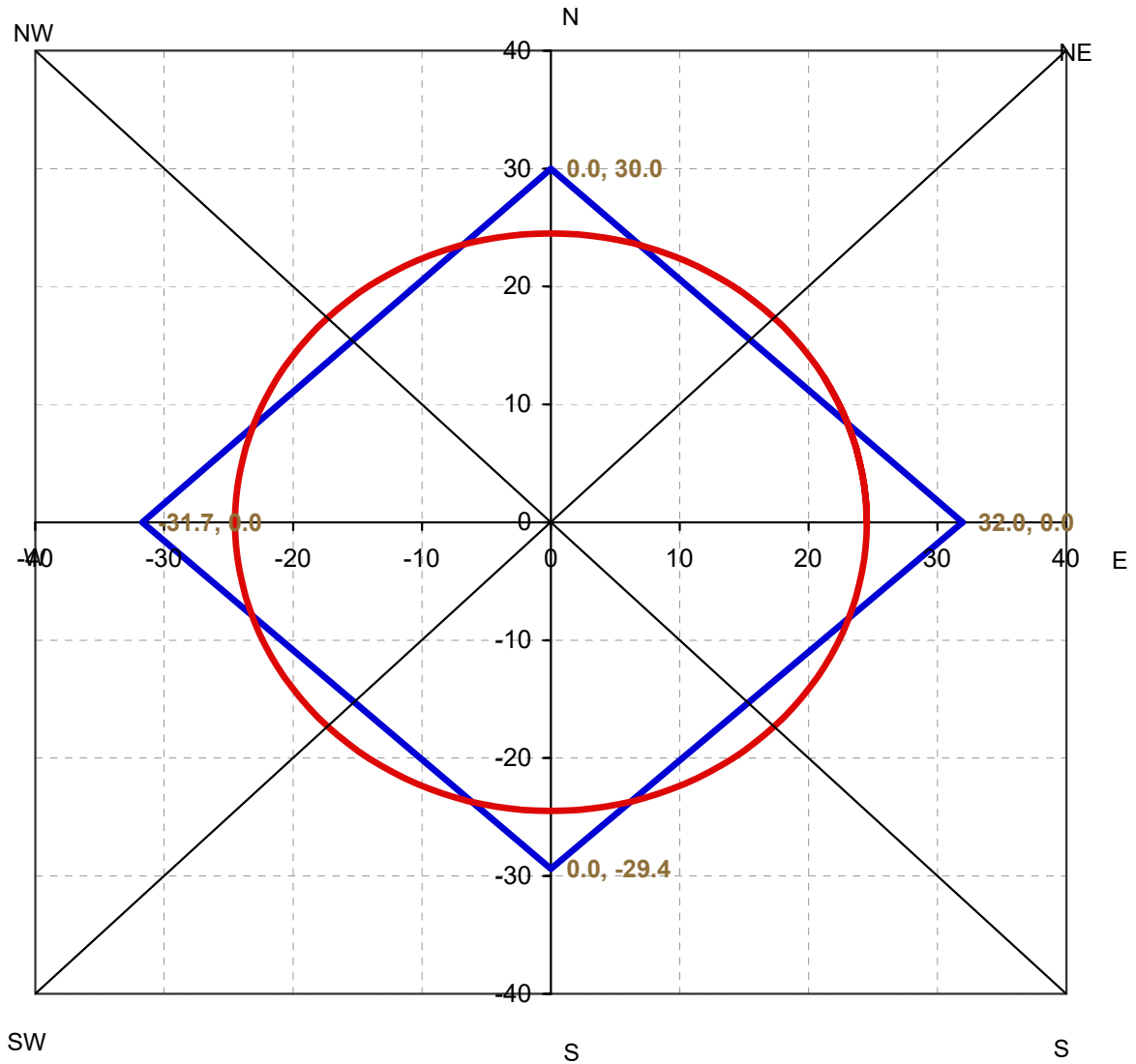
Apparent Resistivity Values (ERT-6)



Electrical Resistivity Test No.: ERT-6

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-6
Test Location : Space for Future Provision
Reduced Level : 209.311 m
Co-ordinate : 2328S, 1407W



Total Area of Polygon : 1891

Radius of Equivalent Circle=Mean Resistivity : 25 ohm-m

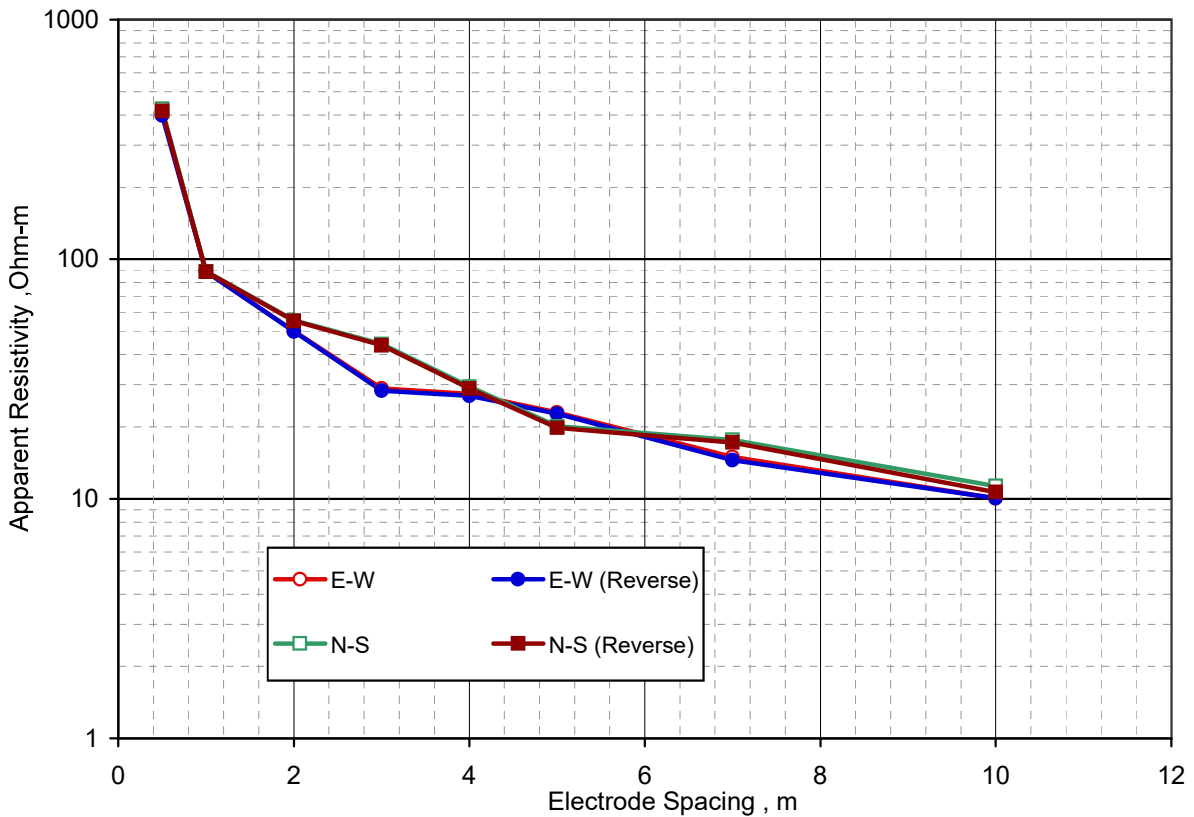
Polar Resistivity Curves (ERT-6)



Electrical Resistivity Test No.: ERT-7

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-7
Test Location :	Space for Future Provision
Reduced Level :	210.136 m
Co-ordinate :	2562S, 1381W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	414.7	399.0	424.1	414.7
1.0	88.9	88.7	89.1	88.7
2.0	50.1	49.9	55.5	55.3
3.0	28.8	28.3	44.3	43.7
4.0	27.4	26.9	29.4	28.9
5.0	22.9	22.6	20.1	19.8
7.0	15.0	14.5	17.6	17.2
10.0	10.1	10.1	11.3	10.7
Mean Resistivity	44	43	48	47

Mean Resistivity Value, ohm-m : 36.2 ohm-m

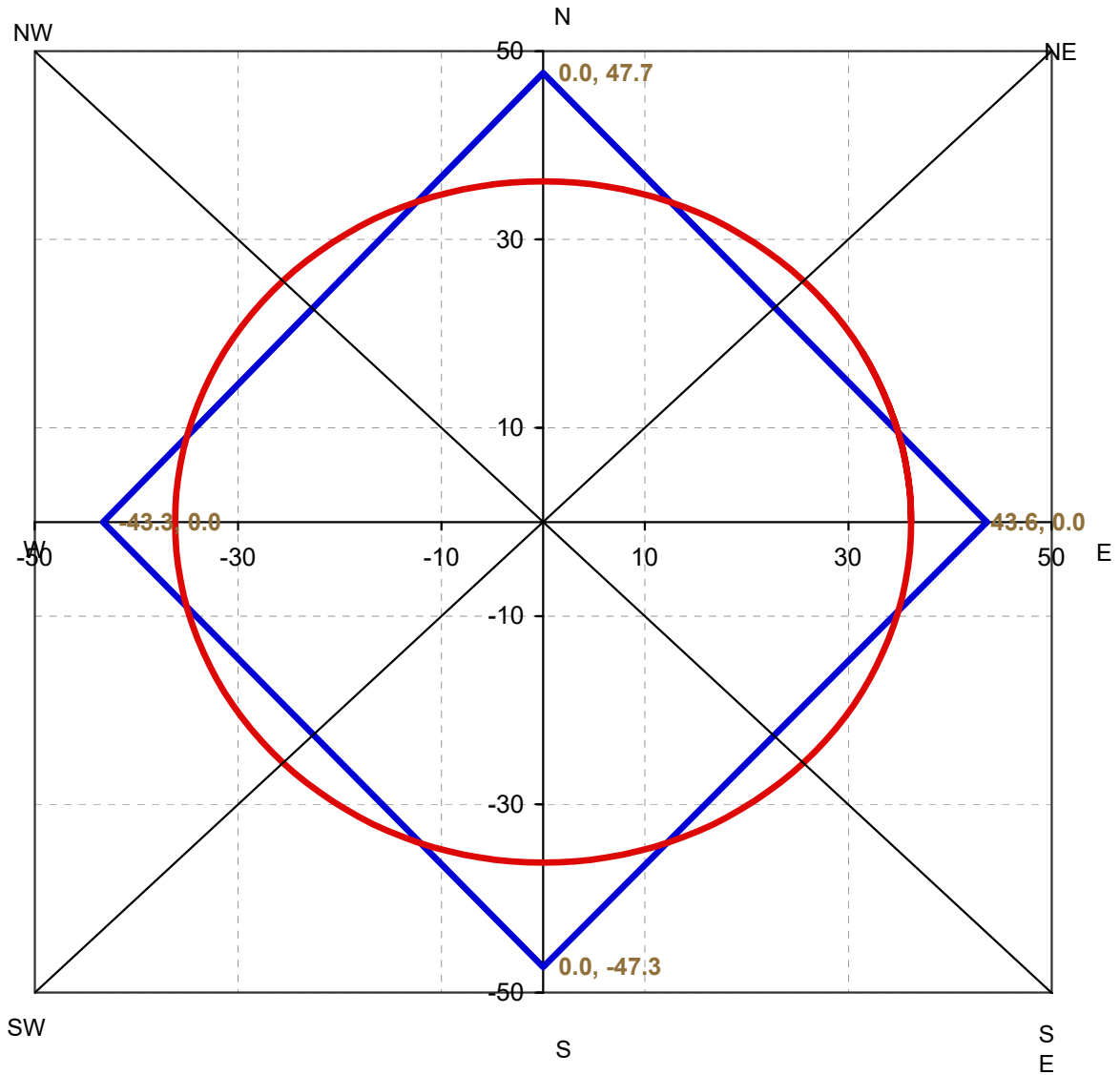
Apparent Resistivity Values (ERT-7)



Electrical Resistivity Test No.: ERT-7

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-7
Test Location : Space for Future Provision
Reduced Level : 210.136 m
Co-ordinate : 2562S, 1381W



Total Area of Polygon : 4127

Radius of Equivalent Circle=Mean Resistivity : 36 ohm-m

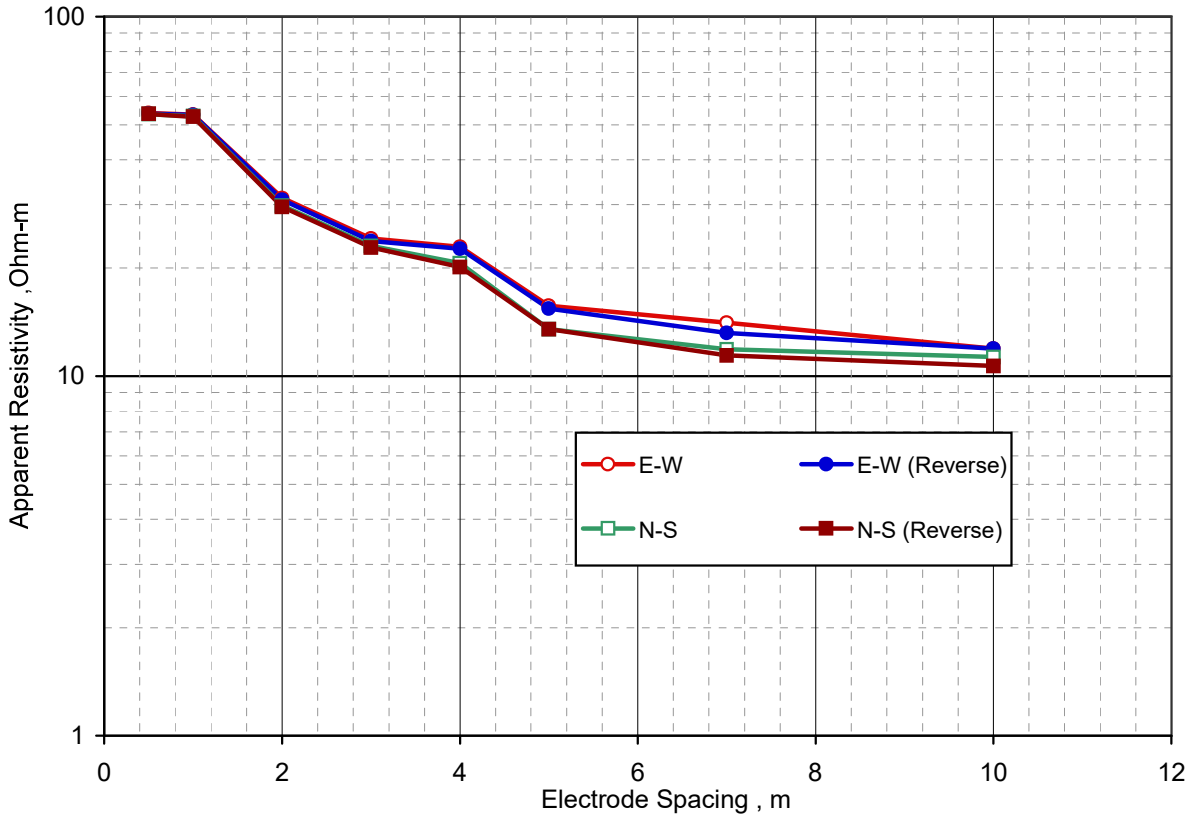
Polar Resistivity Curves (ERT-7)



Electrical Resistivity Test No.: ERT-8

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-8
Test Location :	Space for Future Provision
Reduced Level :	209.924 m
Co-ordinate :	2533S, 1327W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	54.0	53.8	53.5	53.7
1.0	53.5	53.3	52.9	52.7
2.0	31.3	30.9	29.8	29.5
3.0	24.1	23.8	23.0	22.8
4.0	22.9	22.6	20.6	20.1
5.0	15.7	15.4	13.5	13.5
7.0	14.1	13.2	11.9	11.4
10.0	11.9	11.9	11.3	10.7
Mean Resistivity	37	37	36	36

Mean Resistivity Value, ohm-m : 29.1 ohm-m

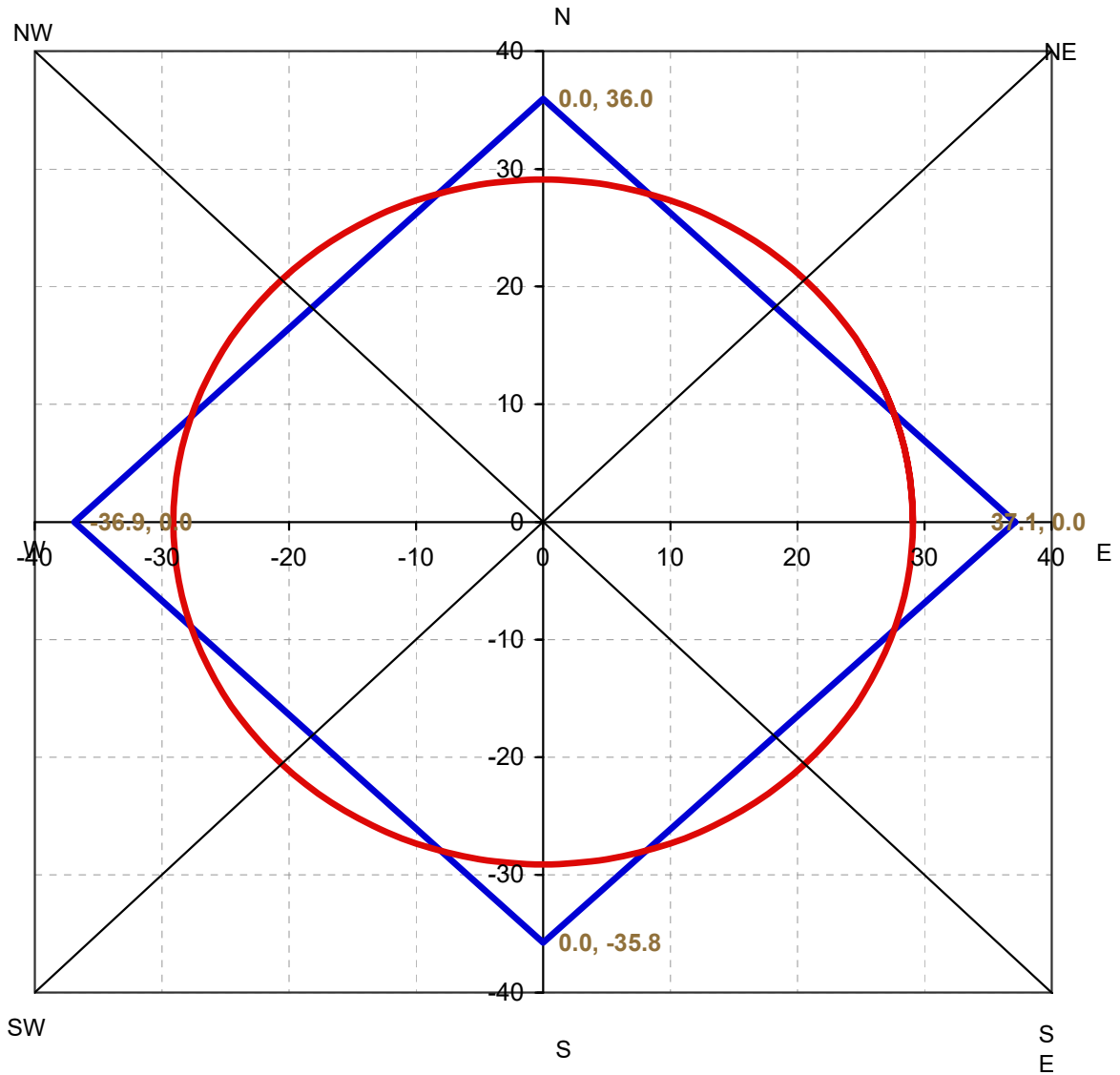
Apparent Resistivity Values (ERT-8)



Electrical Resistivity Test No.: ERT-8

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-8
Test Location : Space for Future Provision
Reduced Level : 209.924 m
Co-ordinate : 2533S, 1327W



Total Area of Polygon : 2654

Radius of Equivalent Circle=Mean Resistivity : 29 ohm-m

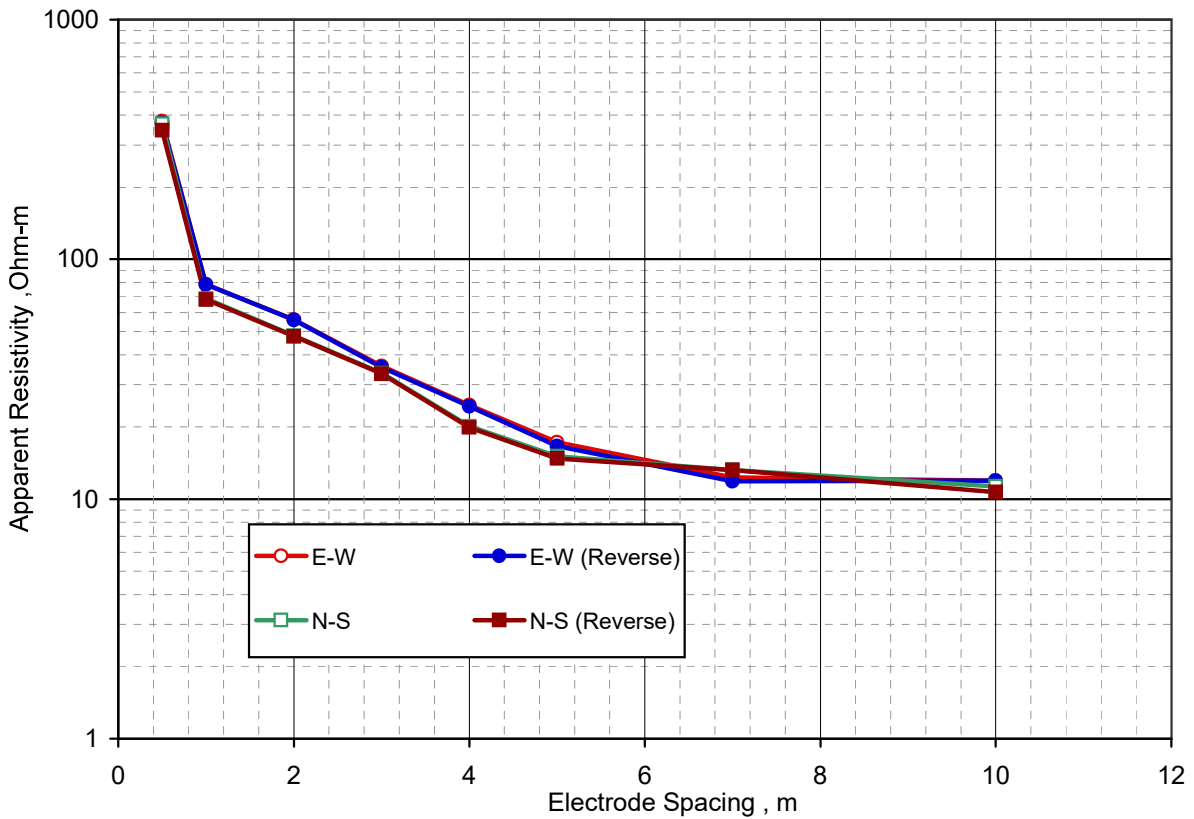
Polar Resistivity Curves (ERT-8)



Electrical Resistivity Test No.: ERT-9

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-9
Test Location :	Space for Future Provision
Reduced Level :	210.729 m
Co-ordinate :	2370S, 1339W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	377.0	370.7	367.6	345.6
1.0	78.6	78.5	68.6	68.0
2.0	55.9	55.8	48.0	47.8
3.0	35.8	35.4	33.6	33.4
4.0	24.6	24.4	20.1	19.9
5.0	17.3	16.7	15.1	14.8
7.0	12.3	11.9	13.2	13.2
10.0	11.9	11.9	11.3	10.7
Mean Resistivity	49	49	43	42

Mean Resistivity Value, ohm-m : 36.2 ohm-m

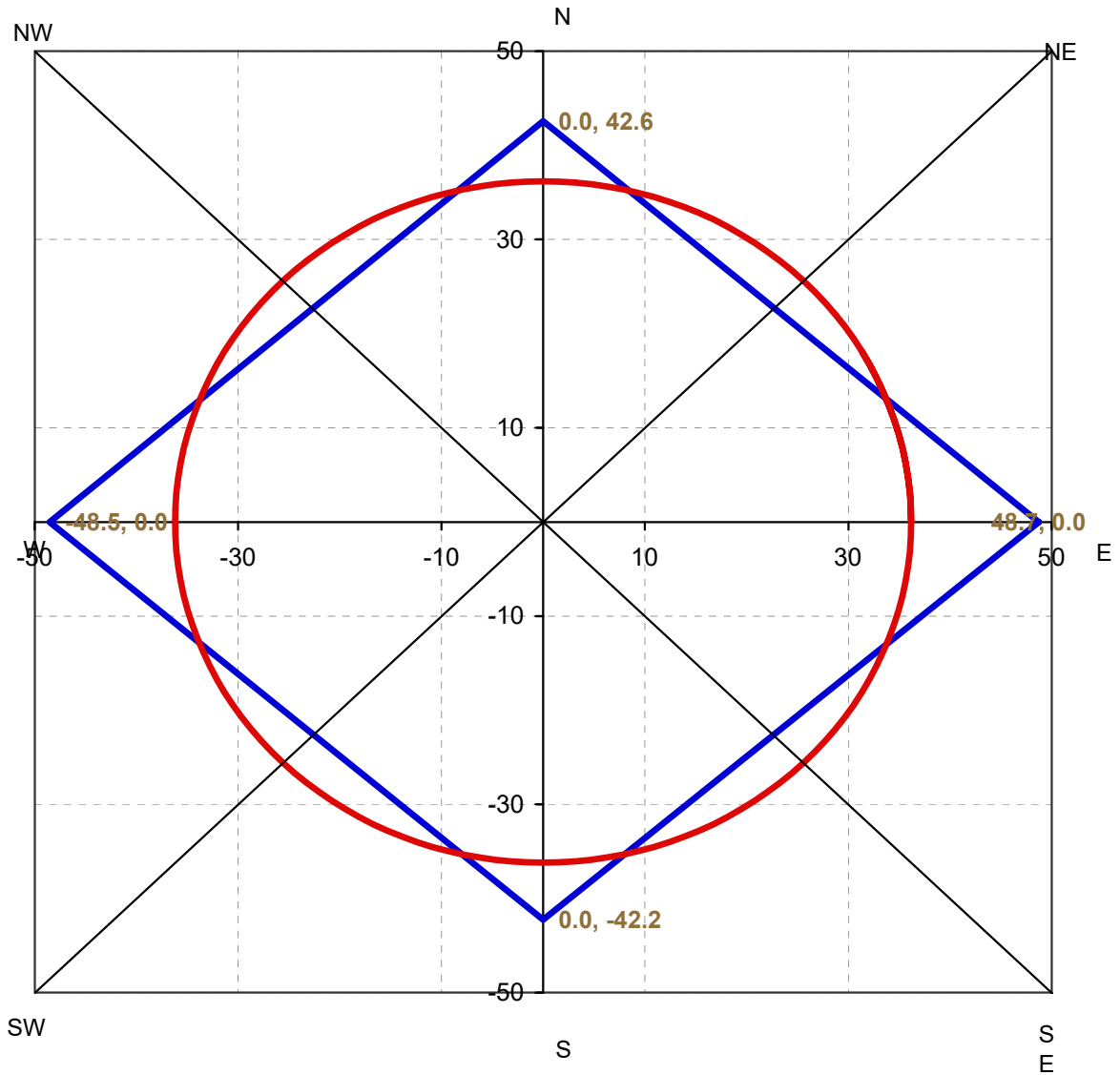
Apparent Resistivity Values (ERT-9)



Electrical Resistivity Test No.: ERT-9

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-9
Test Location : Space for Future Provision
Reduced Level : 210.729 m
Co-ordinate : 2370S, 1339W



Total Area of Polygon : 4125

Radius of Equivalent Circle=Mean Resistivity : 36 ohm-m

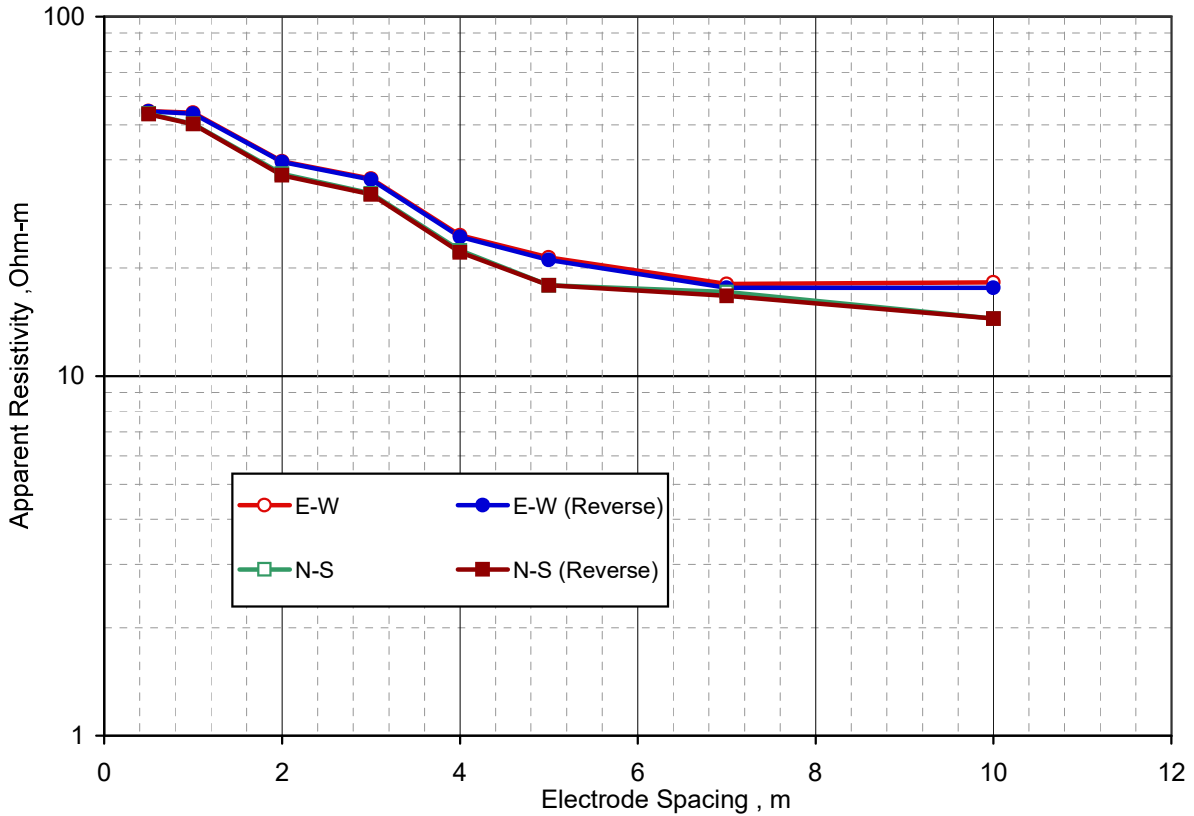
Polar Resistivity Curves (ERT-9)



Electrical Resistivity Test No.: ERT-10

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-10
Test Location :	Space for Future Provision
Reduced Level :	211.263 m
Co-ordinate :	2365S, 1289W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	54.7	54.5	53.8	53.5
1.0	54.1	53.8	50.4	50.3
2.0	39.6	39.5	36.6	36.2
3.0	35.4	35.2	32.2	32.0
4.0	24.6	24.4	22.4	22.1
5.0	21.4	21.0	17.9	17.9
7.0	18.0	17.6	17.2	16.7
10.0	18.2	17.6	14.5	14.5
Mean Resistivity	38	38	36	35

Mean Resistivity Value, ohm-m : 29.4 ohm-m

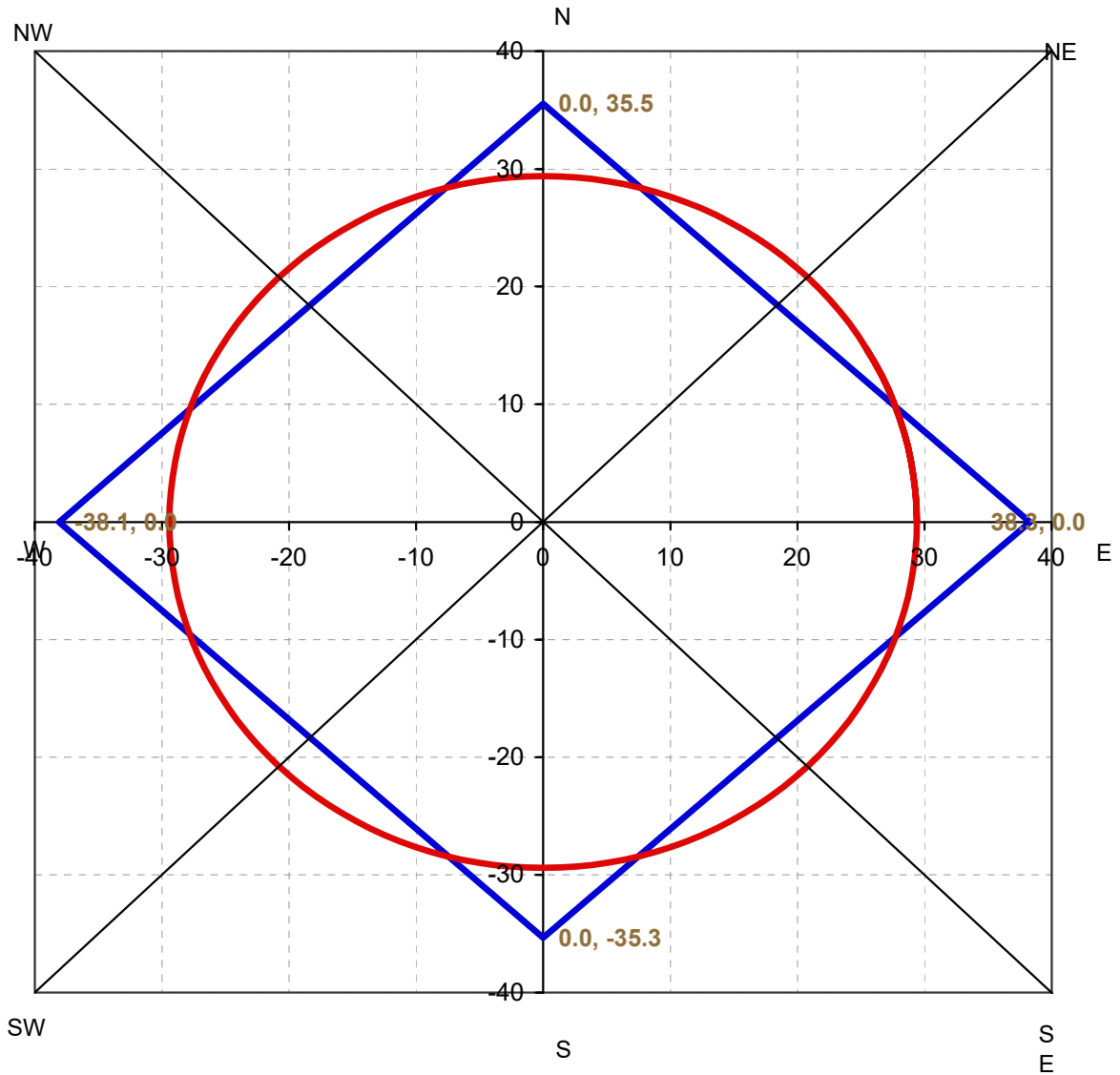
Apparent Resistivity Values (ERT-10)



Electrical Resistivity Test No.: ERT-10

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-10
Test Location : Space for Future Provision
Reduced Level : 211.263 m
Co-ordinate : 2365S, 1289W



Total Area of Polygon : 2707

Radius of Equivalent Circle=Mean Resistivity : 29 ohm-m

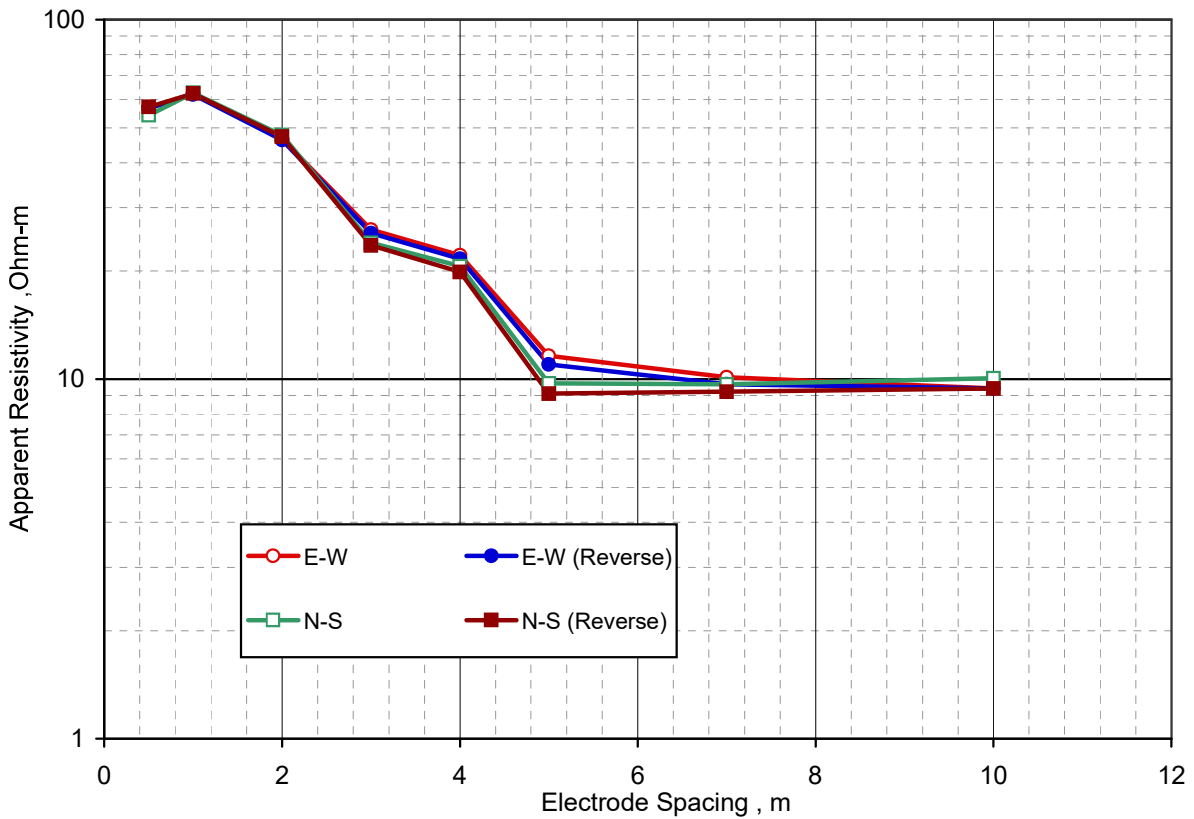
Polar Resistivity Curves (ERT-10)



Electrical Resistivity Test No.: ERT-11

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-11
Test Location :	Space for Future Provision
Reduced Level :	210.666 m
Co-ordinate :	2533S, 1272W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	56.9	56.7	54.2	57.2
1.0	62.2	61.9	62.5	62.3
2.0	46.6	46.2	47.8	47.2
3.0	26.0	25.4	23.9	23.6
4.0	22.1	21.6	20.6	19.9
5.0	11.6	11.0	9.7	9.1
7.0	10.1	9.7	9.7	9.2
10.0	9.4	9.4	10.1	9.4
Mean Resistivity	43	42	42	42

Mean Resistivity Value, ohm-m : 33.7 ohm-m

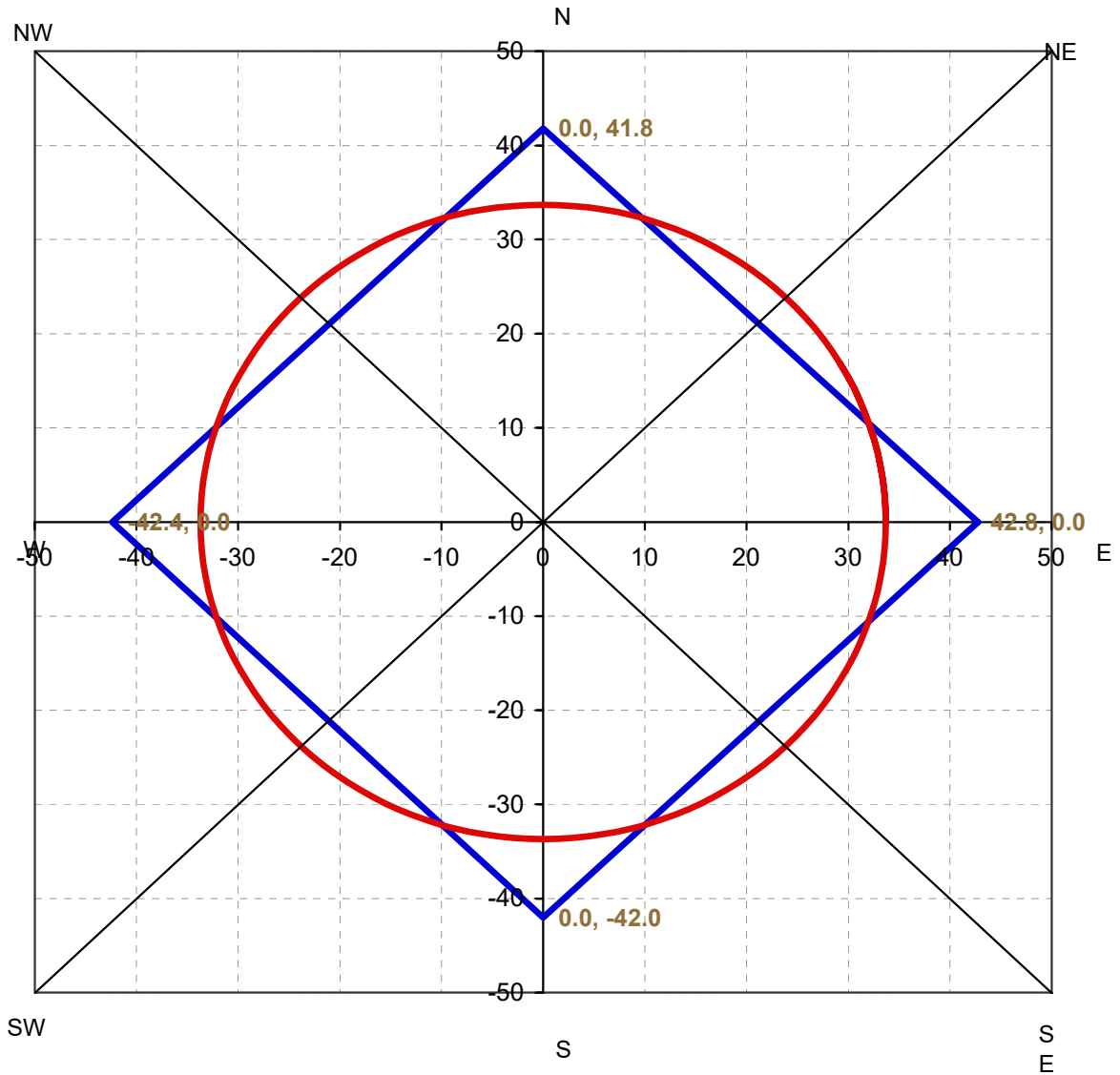
Apparent Resistivity Values (ERT-11)



Electrical Resistivity Test No.: ERT-11

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-11
Test Location : Space for Future Provision
Reduced Level : 210.666 m
Co-ordinate : 2533S, 1272W



Total Area of Polygon : 3568

Radius of Equivalent Circle=Mean Resistivity : 34 ohm-m

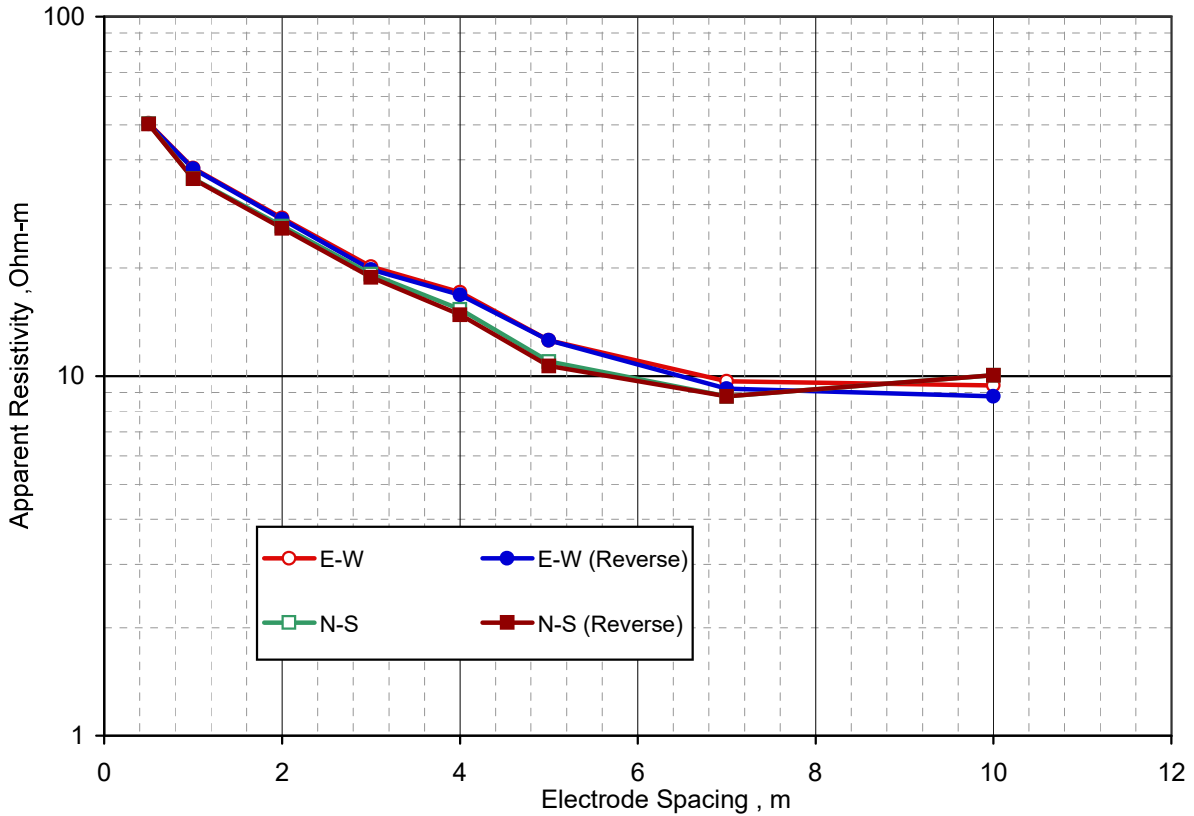
Polar Resistivity Curves (ERT-11)



Electrical Resistivity Test No.: ERT-12

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-12
Test Location :	Space for Future Provision
Reduced Level :	211.253 m
Co-ordinate :	2340S, 1200W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	50.6	50.4	50.3	50.2
1.0	38.0	37.8	35.5	35.4
2.0	27.5	27.3	26.1	25.8
3.0	20.2	19.8	19.2	18.8
4.0	17.1	16.8	15.3	14.8
5.0	12.6	12.6	11.0	10.7
7.0	9.7	9.2	8.8	8.8
10.0	9.4	8.8	10.1	10.1
Mean Resistivity	34	34	33	33

Mean Resistivity Value, ohm-m : 26.6 ohm-m

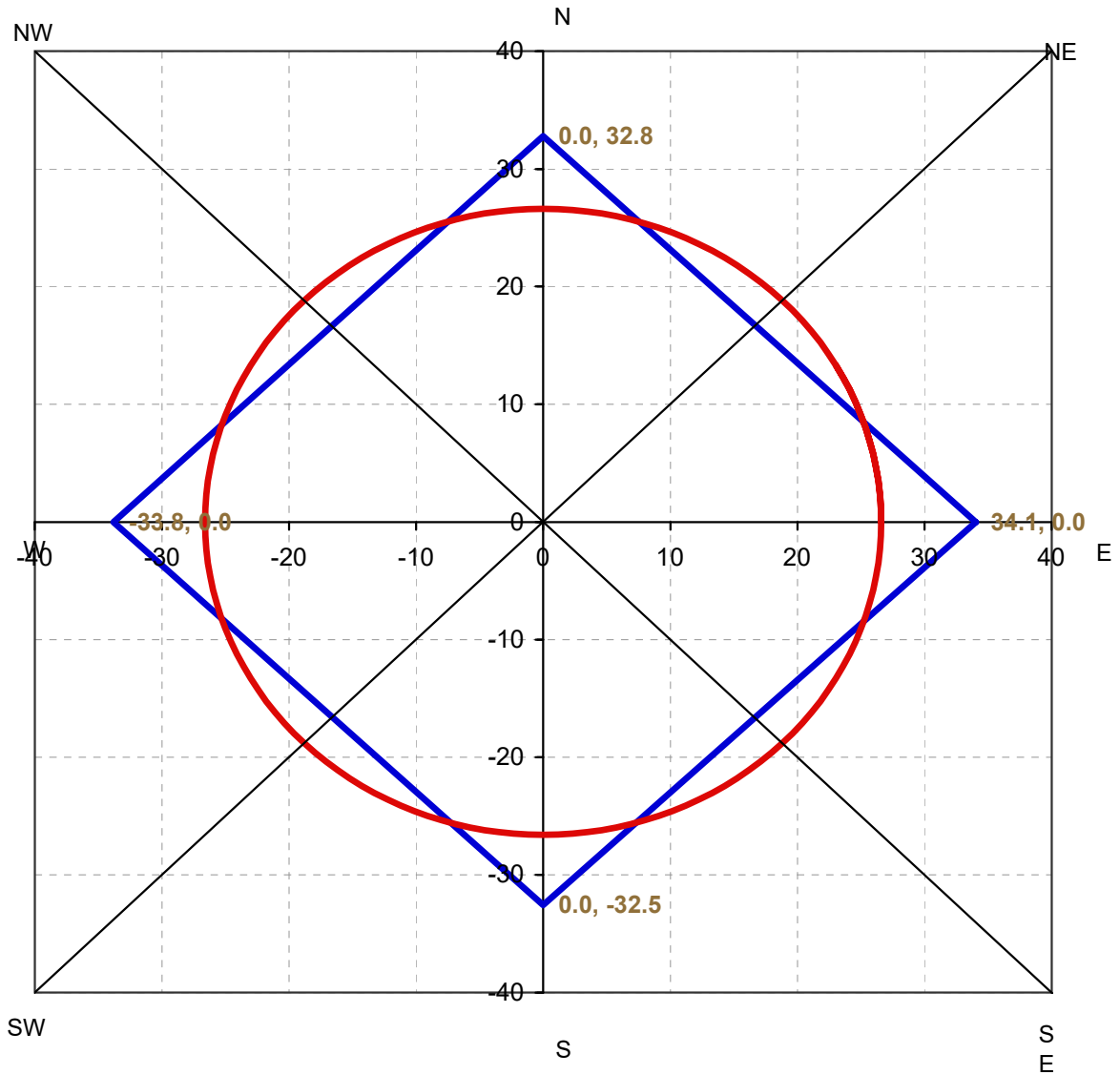
Apparent Resistivity Values (ERT-12)



Electrical Resistivity Test No.: ERT-12

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-12
Test Location : Space for Future Provision
Reduced Level : 211.253 m
Co-ordinate : 2340S, 1200W



Total Area of Polygon : 2217

Radius of Equivalent Circle=Mean Resistivity : 27 ohm-m

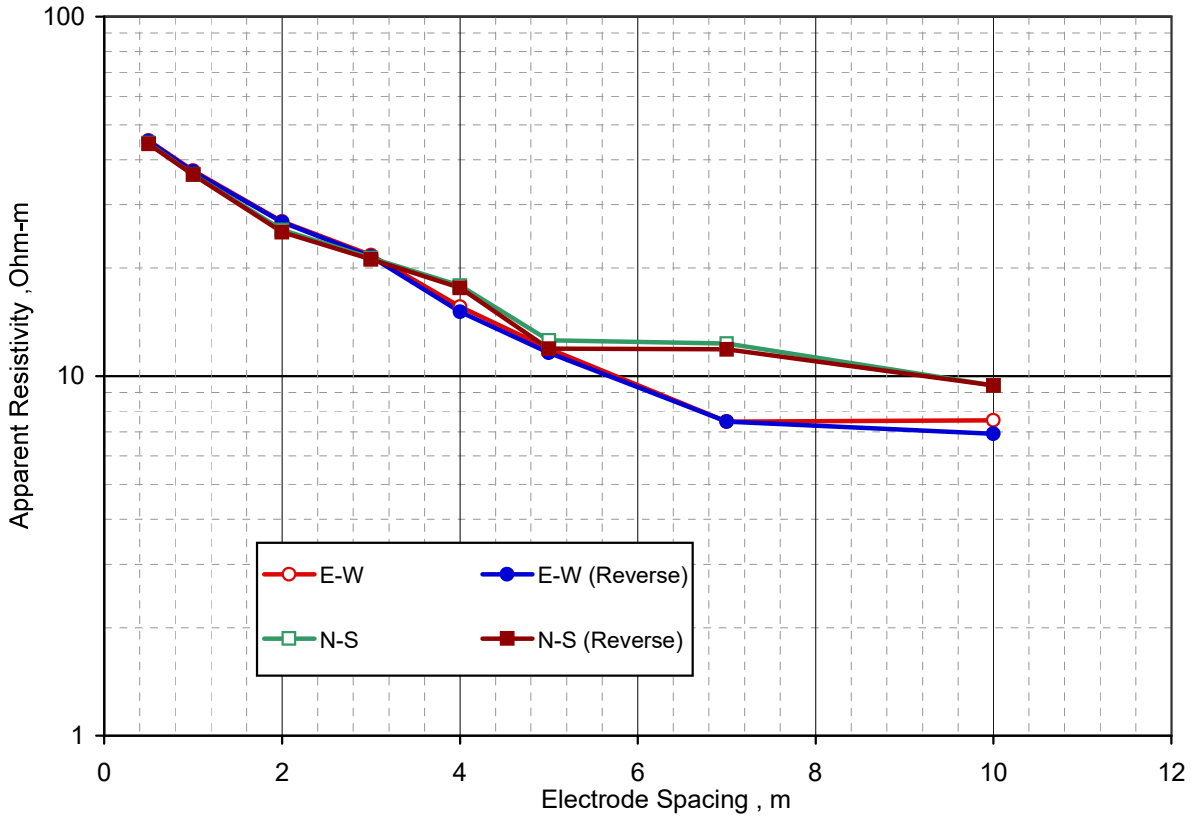
Polar Resistivity Curves (ERT-12)



Electrical Resistivity Test No.: ERT-13

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-13
Test Location :	Space for Future Provision
Reduced Level :	212.738 m
Co-ordinate :	2572S, 1131W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	45.2	45.1	44.5	44.2
1.0	37.3	37.1	36.4	36.3
2.0	26.9	26.8	25.5	25.1
3.0	21.7	21.5	21.3	21.1
4.0	15.6	15.1	17.8	17.6
5.0	11.9	11.6	12.6	11.9
7.0	7.5	7.5	12.3	11.9
10.0	7.5	6.9	9.4	9.4
Mean Resistivity	33	33	32	32

Mean Resistivity Value, ohm-m : 25.7 ohm-m

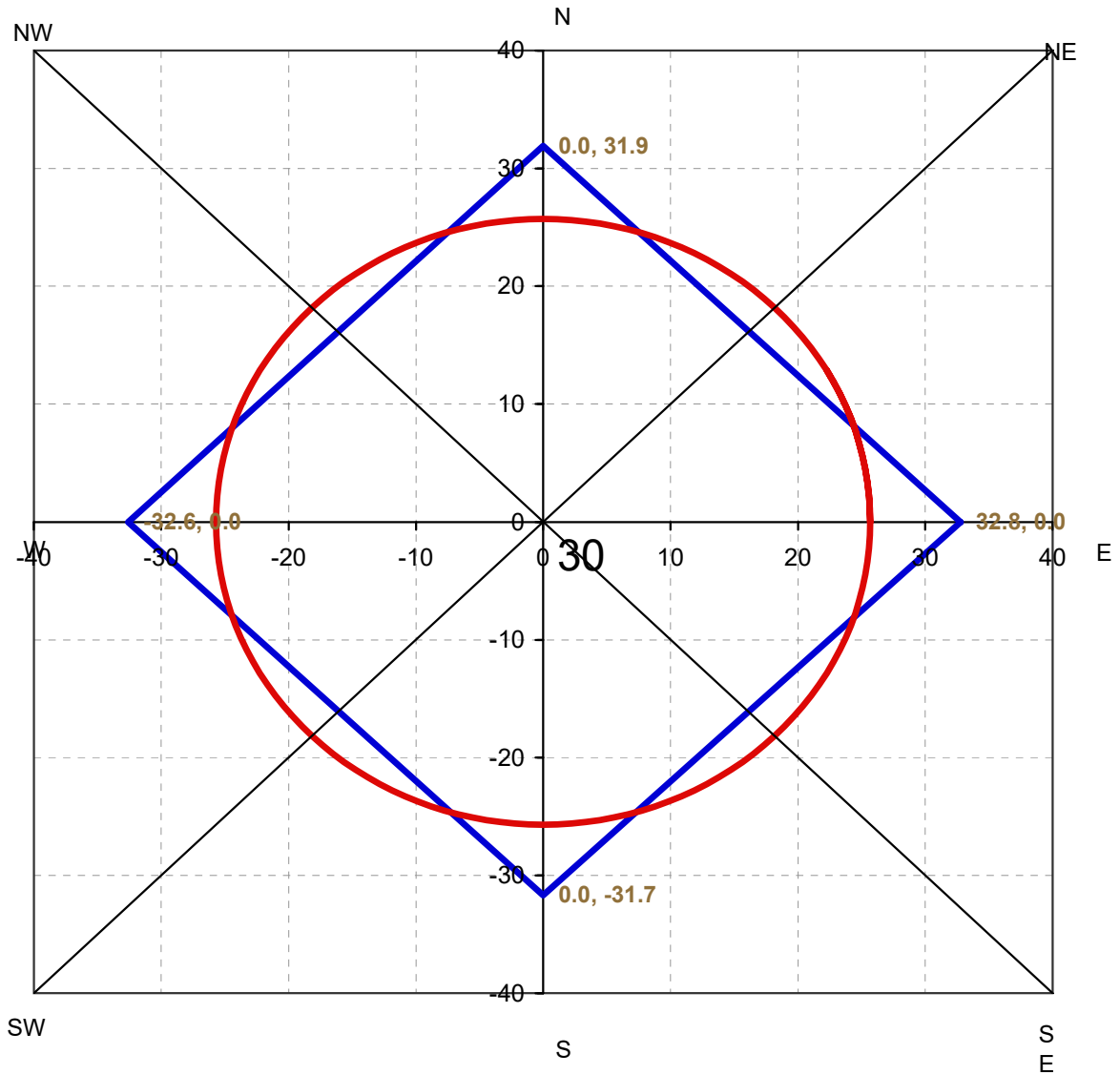
Apparent Resistivity Values (ERT-13)



Electrical Resistivity Test No.: ERT-13

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-13
Test Location : Space for Future Provision
Reduced Level : 212.738 m
Co-ordinate : 2572S, 1131W



Total Area of Polygon : 2080

Radius of Equivalent Circle=Mean Resistivity : 26 ohm-m

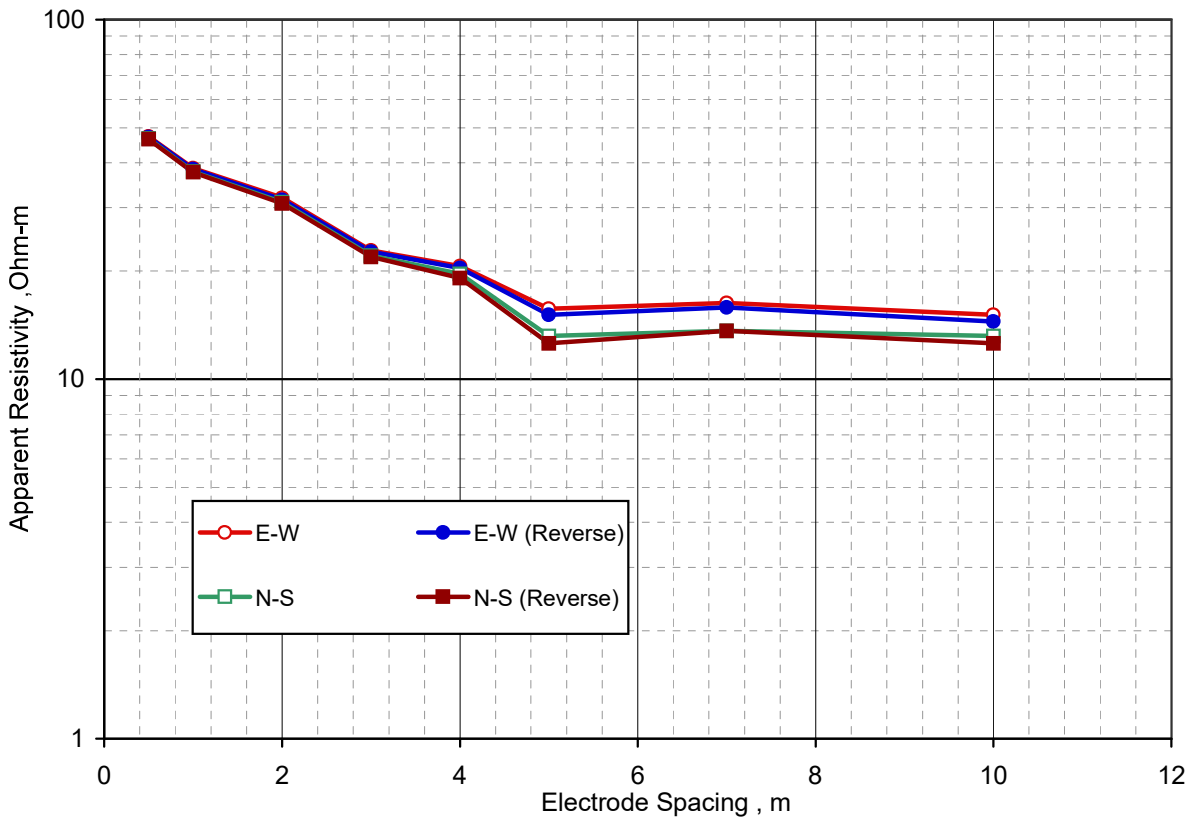
Polar Resistivity Curves (ERT-13)



Electrical Resistivity Test No.: ERT-14

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-14
Test Location :	Space for Future Provision
Reduced Level :	210.612 m
Co-ordinate :	2552S, 1053W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	47.3	47.1	46.7	46.5
1.0	38.6	38.5	37.8	37.6
2.0	31.9	31.5	31.0	30.8
3.0	22.8	22.6	22.1	21.9
4.0	20.6	20.4	19.6	19.1
5.0	15.7	15.1	13.2	12.6
7.0	16.3	15.8	13.6	13.6
10.0	15.1	14.5	13.2	12.6
Mean Resistivity	32	32	31	31

Mean Resistivity Value, ohm-m : 25.3 ohm-m

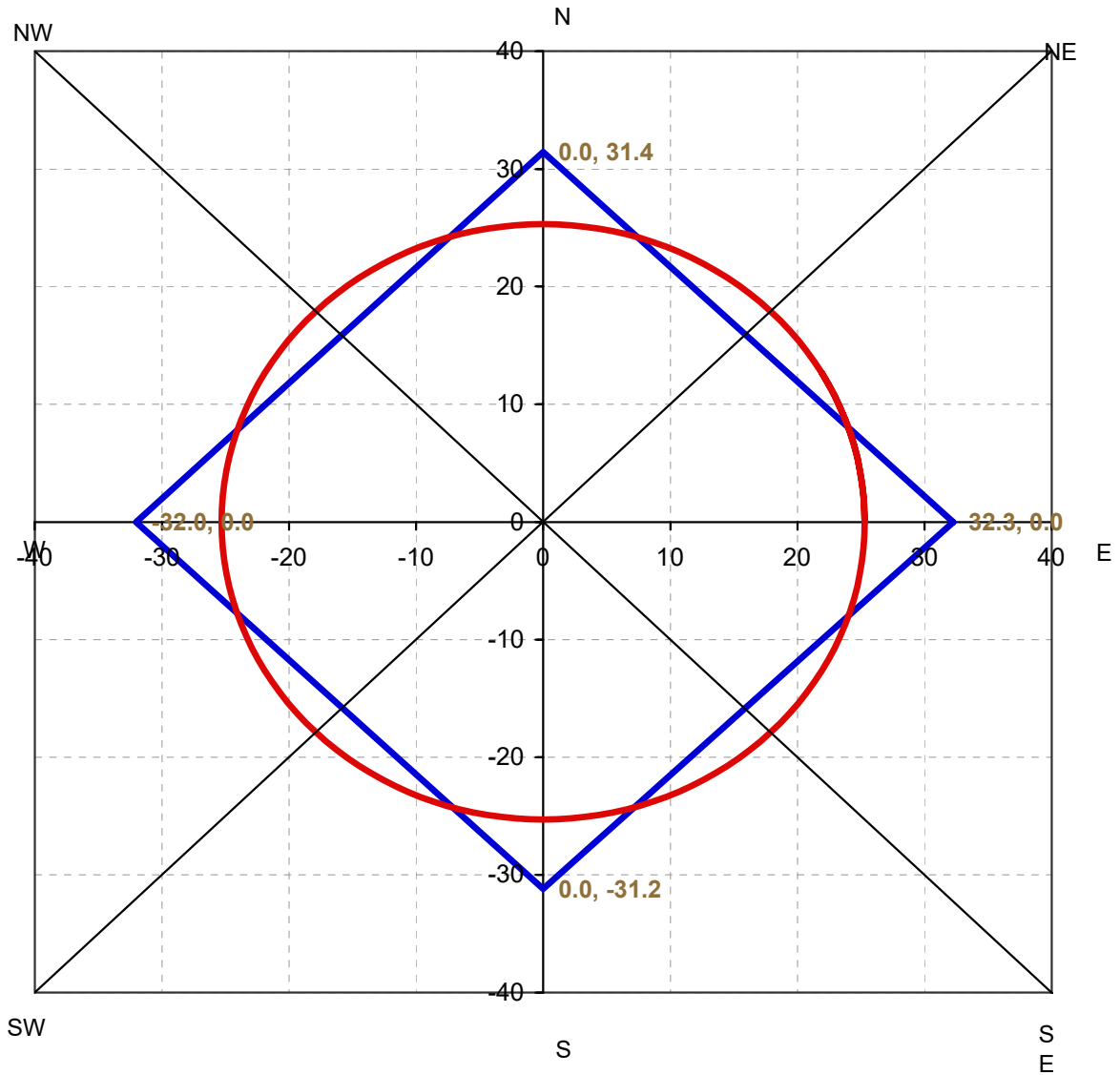
Apparent Resistivity Values (ERT-14)



Electrical Resistivity Test No.: ERT-14

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-14
Test Location : Space for Future Provision
Reduced Level : 210.612 m
Co-ordinate : 2552S, 1053W



Total Area of Polygon : 2013

Radius of Equivalent Circle=Mean Resistivity : 25 ohm-m

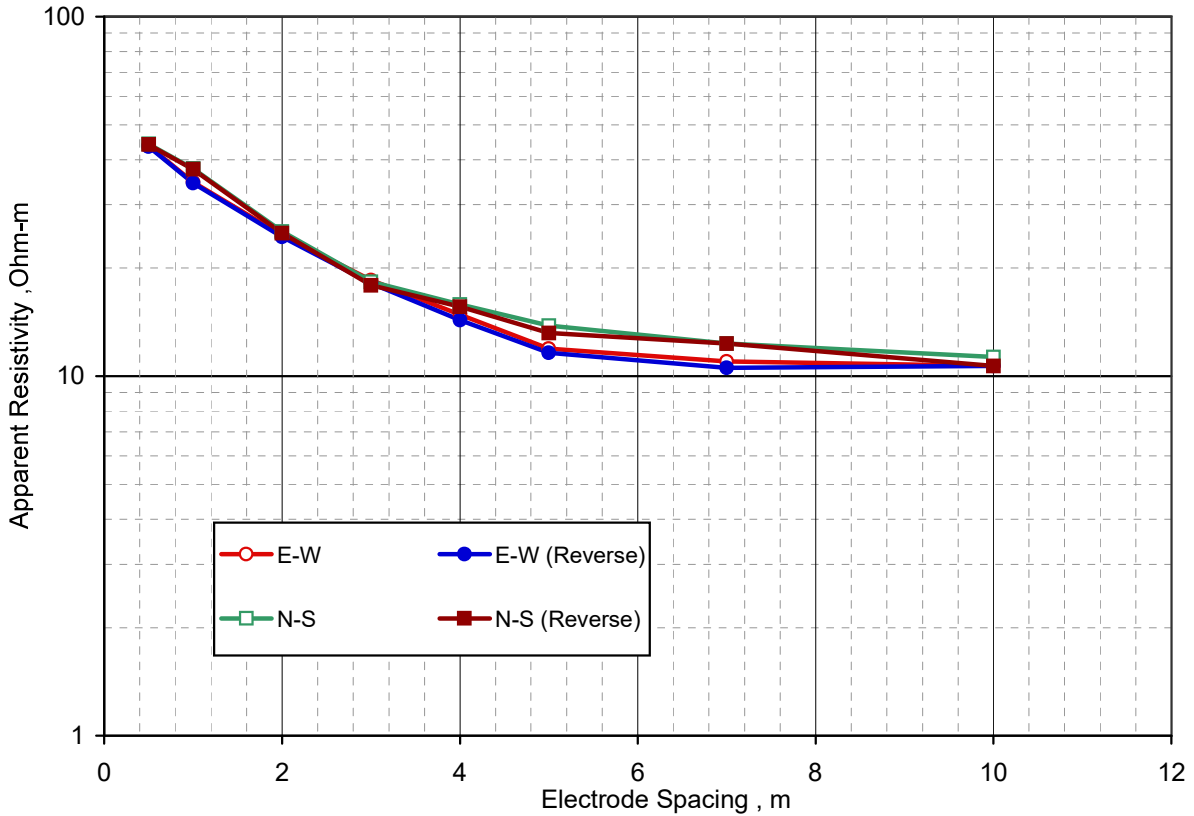
Polar Resistivity Curves (ERT-14)



Electrical Resistivity Test No.: ERT-15

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-15
Test Location :	Space for Future Provision
Reduced Level :	211.507 m
Co-ordinate :	2346S, 1048W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	43.7	43.6	44.3	44.0
1.0	34.7	34.5	37.8	37.6
2.0	24.6	24.4	25.3	25.0
3.0	18.5	18.1	18.3	17.9
4.0	14.8	14.3	15.8	15.6
5.0	11.9	11.6	13.8	13.2
7.0	11.0	10.6	12.3	12.3
10.0	10.7	10.7	11.3	10.7
Mean Resistivity	30	30	31	31

Mean Resistivity Value, ohm-m : 24.5 ohm-m

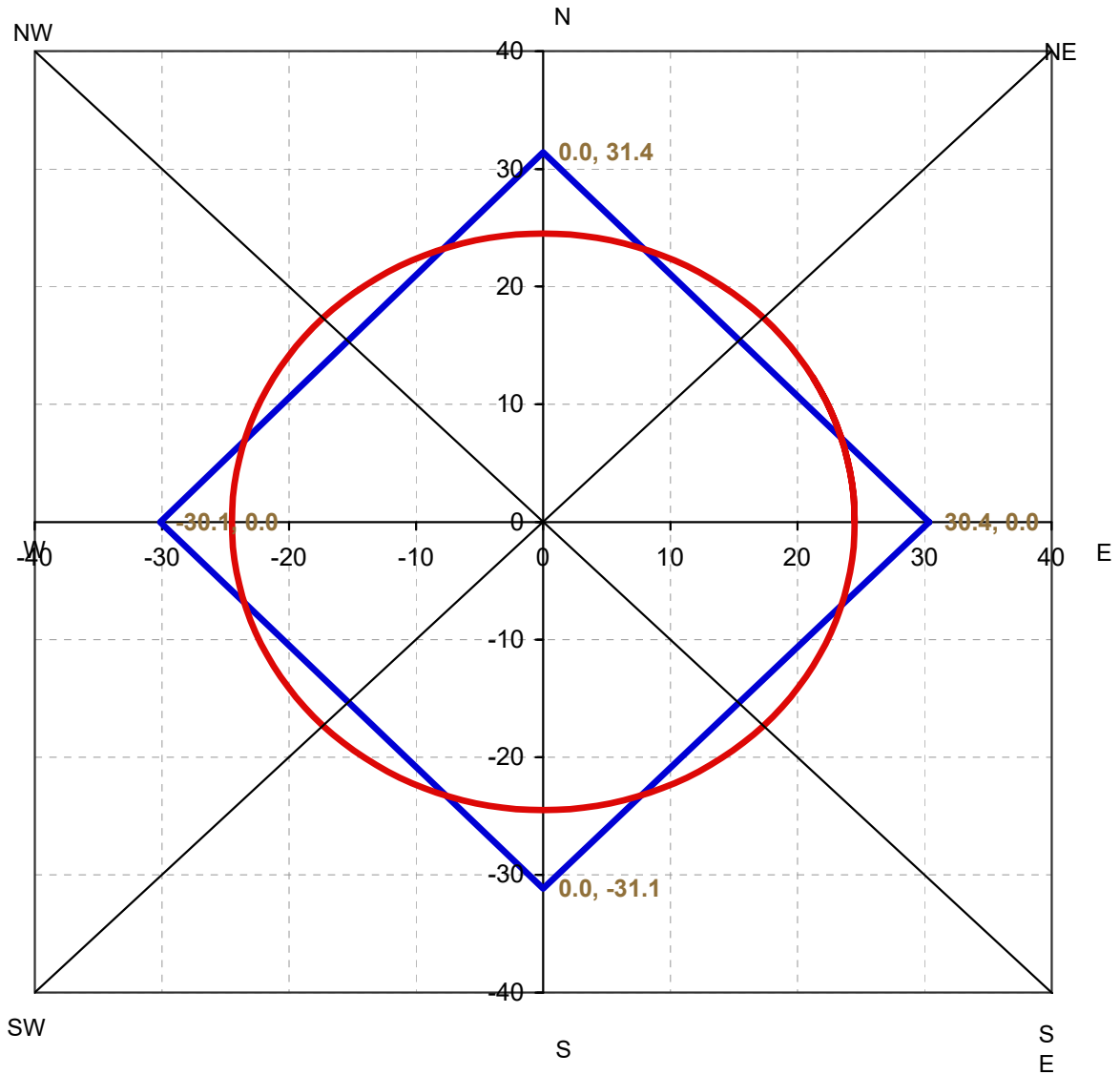
Apparent Resistivity Values (ERT-15)



Electrical Resistivity Test No.: ERT-15

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-15
Test Location : Space for Future Provision
Reduced Level : 211.507 m
Co-ordinate : 2346S, 1048W



Total Area of Polygon : 1893

Radius of Equivalent Circle=Mean Resistivity : 25 ohm-m

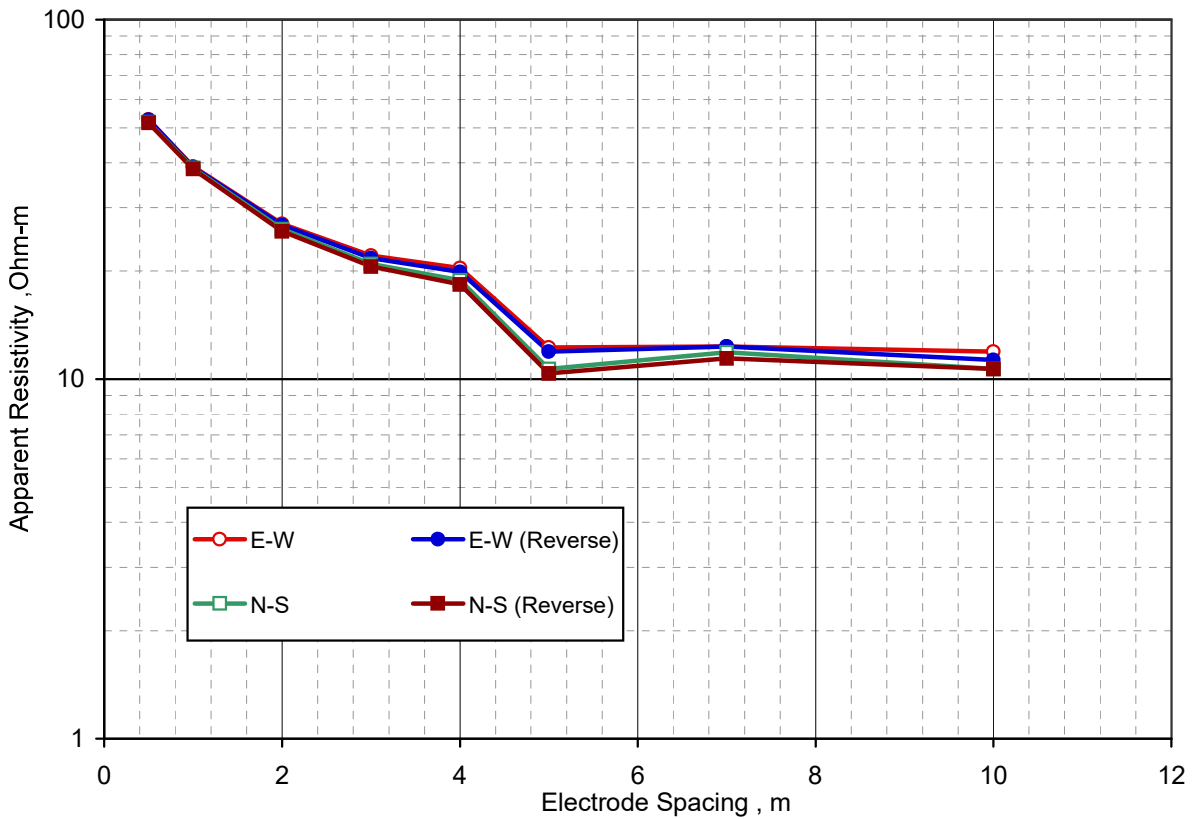
Polar Resistivity Curves (ERT-15)



Electrical Resistivity Test No.: ERT-16

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-16
Test Location :	Space for Future Provision
Reduced Level :	209.258 m
Co-ordinate :	2517S, 975W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	52.8	52.6	51.8	51.6
1.0	39.1	38.9	38.6	38.5
2.0	27.0	26.8	26.1	25.8
3.0	22.1	21.7	20.9	20.5
4.0	20.4	19.9	18.8	18.3
5.0	12.3	11.9	10.7	10.4
7.0	12.3	12.3	11.9	11.4
10.0	11.9	11.3	10.7	10.7
Mean Resistivity	32	32	31	31

Mean Resistivity Value, ohm-m : 25.2 ohm-m

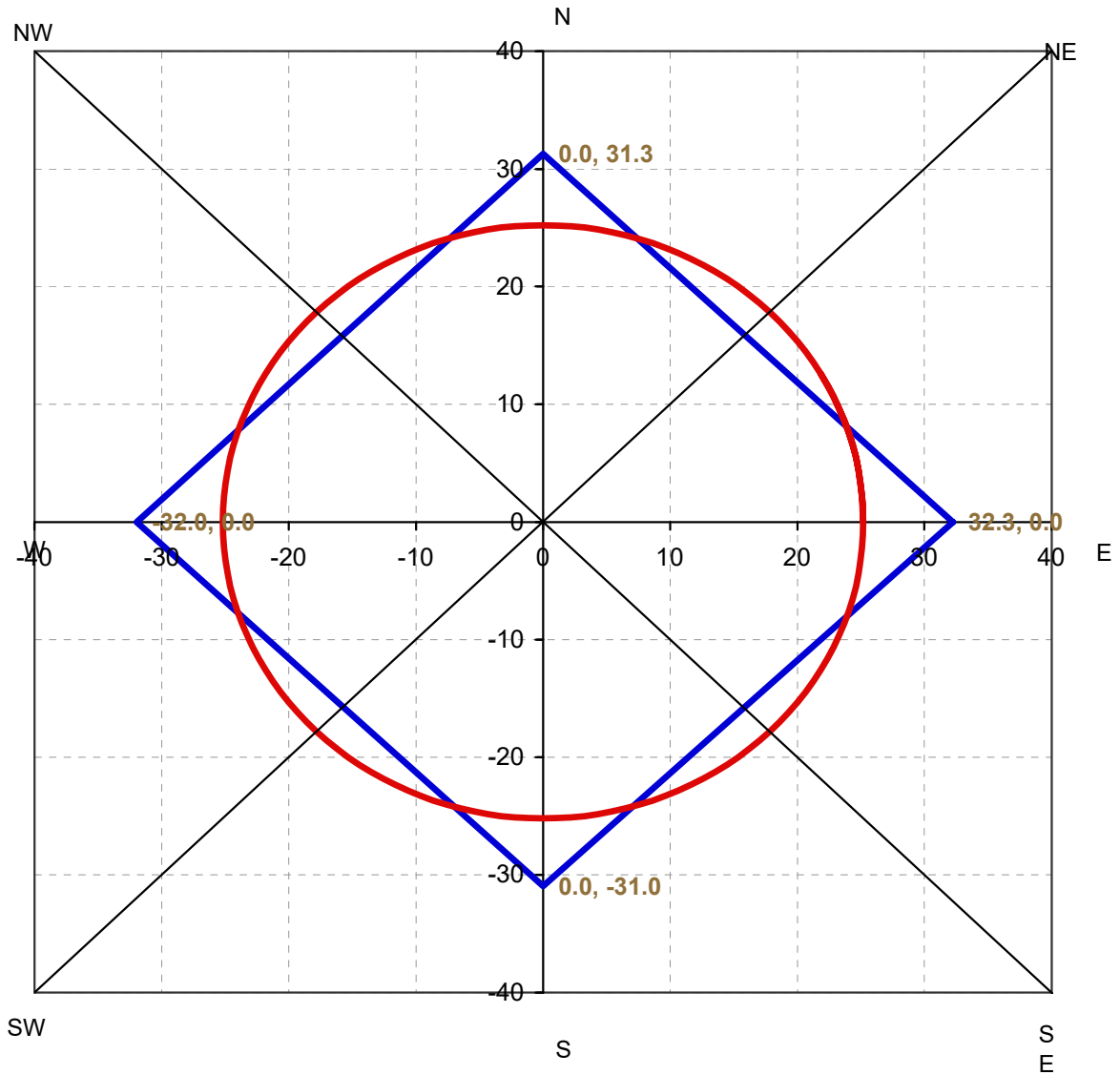
Apparent Resistivity Values (ERT-16)



Electrical Resistivity Test No.: ERT-16

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-16
Test Location : Space for Future Provision
Reduced Level : 209.258 m
Co-ordinate : 2517S, 975W



Total Area of Polygon : 1998

Radius of Equivalent Circle=Mean Resistivity : 25 ohm-m

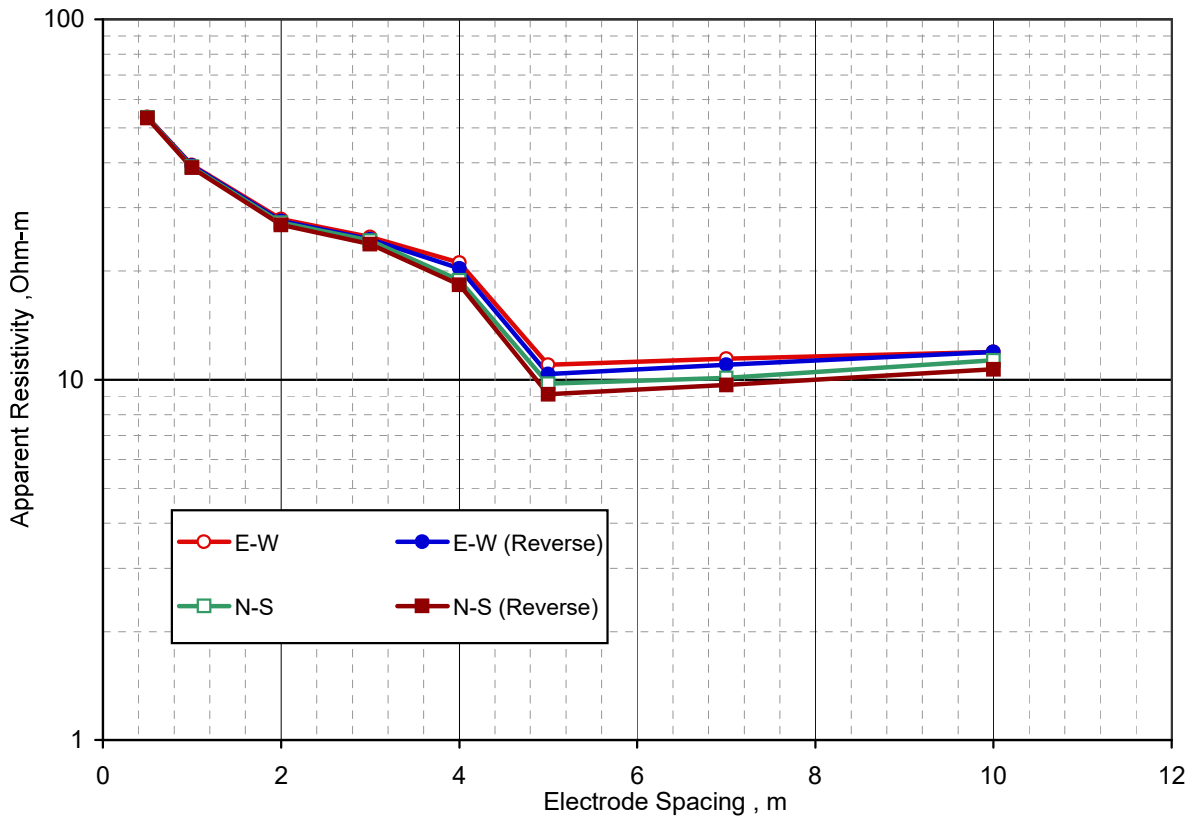
Polar Resistivity Curves (ERT-16)



Electrical Resistivity Test No.: ERT-18

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-18
Test Location :	Space for Future Provision
Reduced Level :	208.319 m
Co-ordinate :	2501S, 911W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	53.7	53.4	53.4	53.2
1.0	39.5	39.3	39.0	38.7
2.0	27.9	27.5	27.3	26.9
3.0	24.9	24.5	24.3	23.8
4.0	21.1	20.4	18.8	18.3
5.0	11.0	10.4	9.7	9.1
7.0	11.4	11.0	10.1	9.7
10.0	11.9	11.9	11.3	10.7
Mean Resistivity	33	33	33	32

Mean Resistivity Value, ohm-m : 26.2 ohm-m

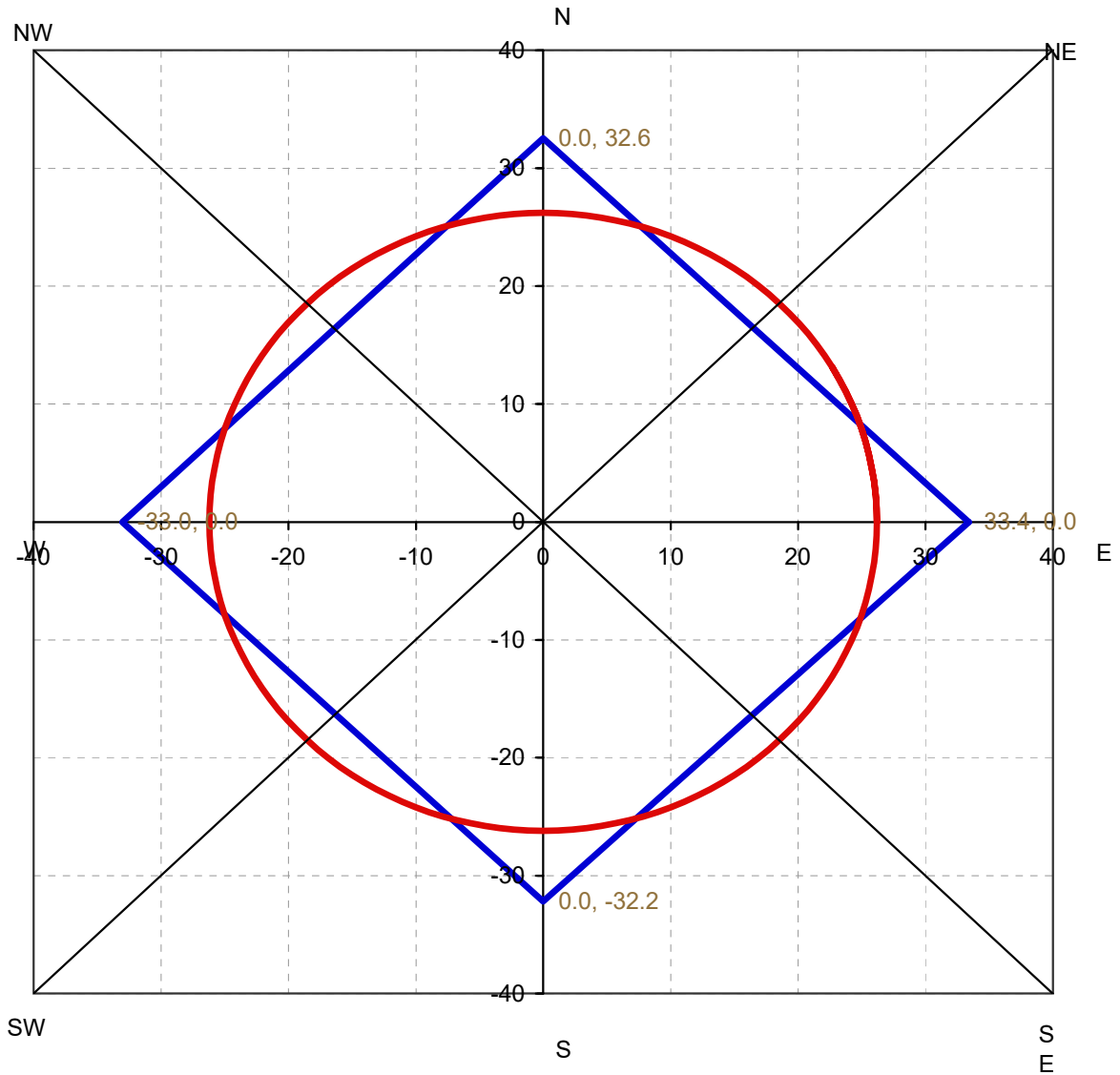
Apparent Resistivity Values (ERT-18)



Electrical Resistivity Test No.: ERT-18

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-18
Test Location : Space for Future Provision
Reduced Level : 208.319 m
Co-ordinate : 2501S, 911W



Total Area of Polygon : 2150

Radius of Equivalent Circle=Mean Resistivity : 26 ohm-m

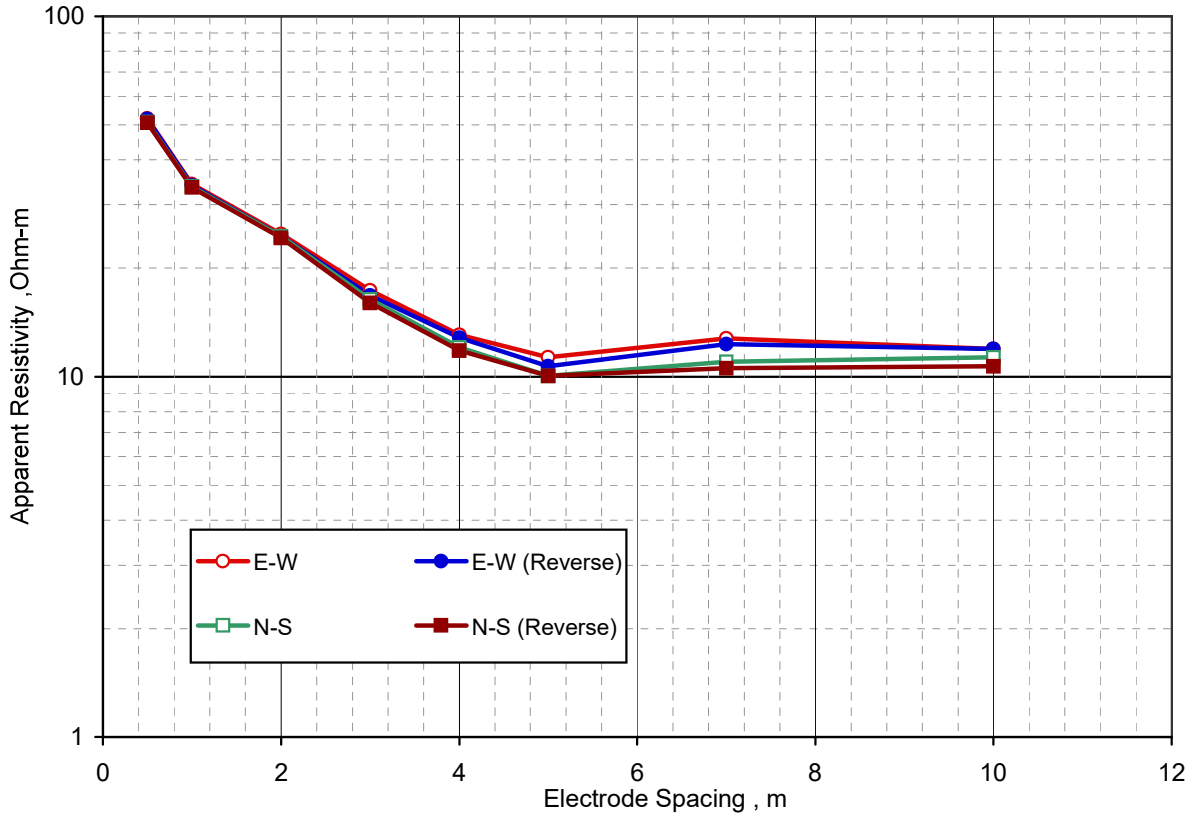
Polar Resistivity Curves (ERT-18)



Electrical Resistivity Test No.: ERT-19

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-19
Test Location :	Space for Future Provision
Reduced Level :	208.477 m
Co-ordinate :	2433S, 892W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	52.1	51.9	50.8	50.6
1.0	34.2	34.0	33.7	33.5
2.0	24.9	24.5	24.5	24.3
3.0	17.3	16.8	16.4	16.0
4.0	13.1	12.8	12.1	11.8
5.0	11.3	10.7	10.1	10.1
7.0	12.8	12.3	11.0	10.6
10.0	11.9	11.9	11.3	10.7
Mean Resistivity	28	28	28	27

Mean Resistivity Value, ohm-m : 22.2 ohm-m

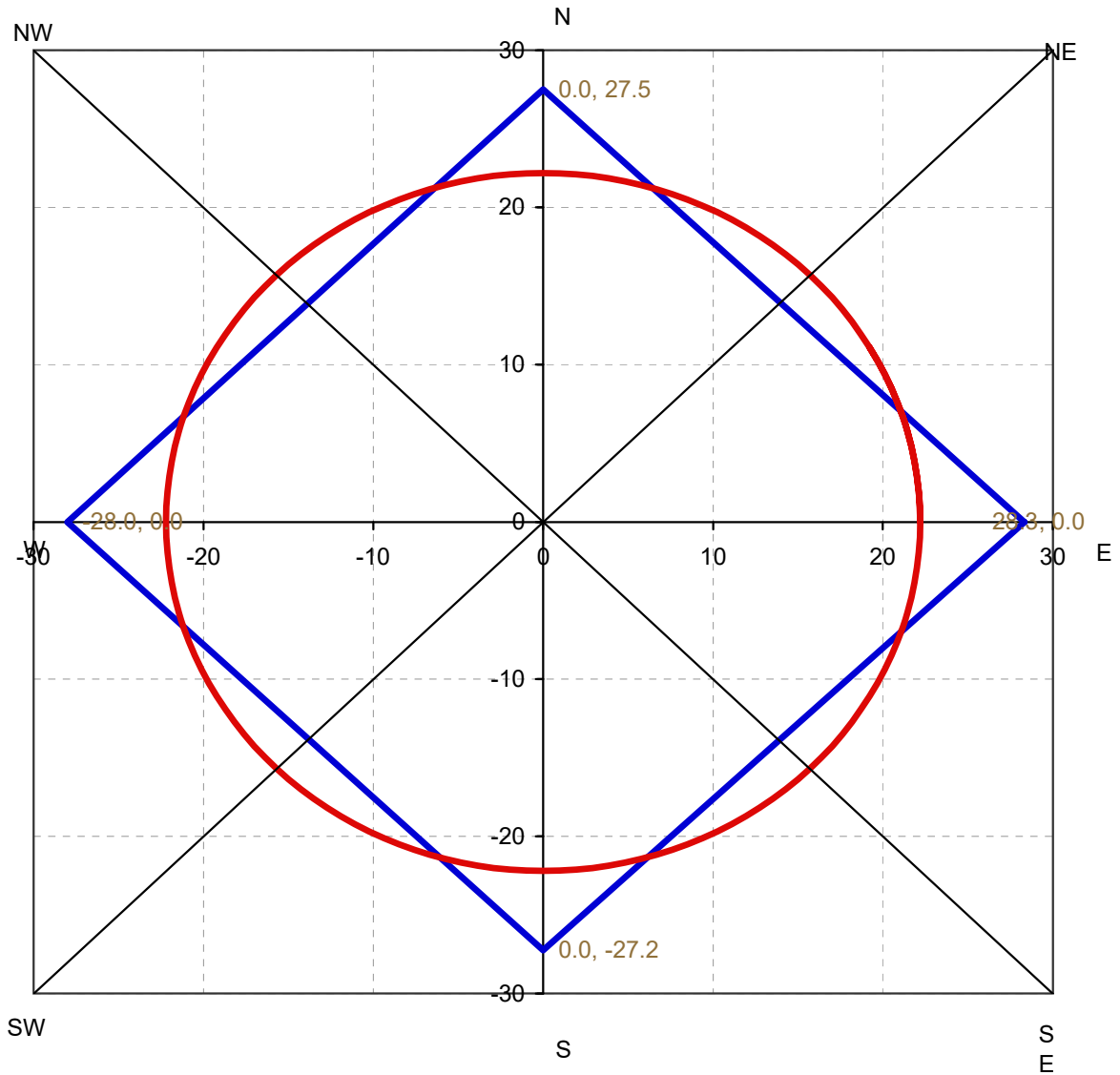
Apparent Resistivity Values (ERT-19)



Electrical Resistivity Test No.: ERT-19

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-19
Test Location : Space for Future Provision
Reduced Level : 208.477 m
Co-ordinate : 2433S, 892W



Total Area of Polygon : 1542

Radius of Equivalent Circle=Mean Resistivity : 22 ohm-m

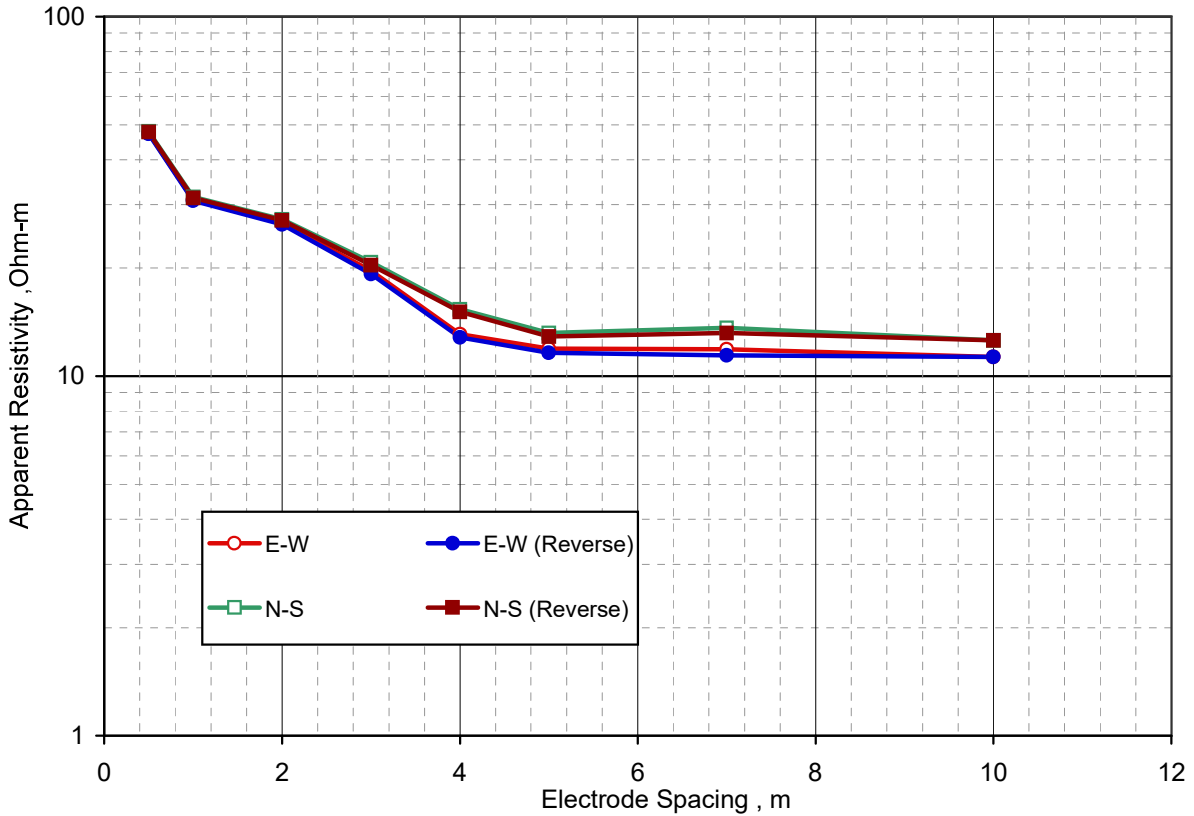
Polar Resistivity Curves (ERT-19)



Electrical Resistivity Test No.: ERT-23

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-23
Test Location :	Space for Future Provision
Reduced Level :	109.395 m
Co-ordinate :	2212S, 1139W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	47.4	47.2	47.9	47.8
1.0	30.9	30.7	31.5	31.3
2.0	26.6	26.4	27.3	27.1
3.0	19.6	19.2	20.7	20.4
4.0	13.1	12.8	15.3	15.1
5.0	11.9	11.6	13.2	12.9
7.0	11.9	11.4	13.6	13.2
10.0	11.3	11.3	12.6	12.6
Mean Resistivity	28	27	29	28

Mean Resistivity Value, ohm-m : 22.3 ohm-m

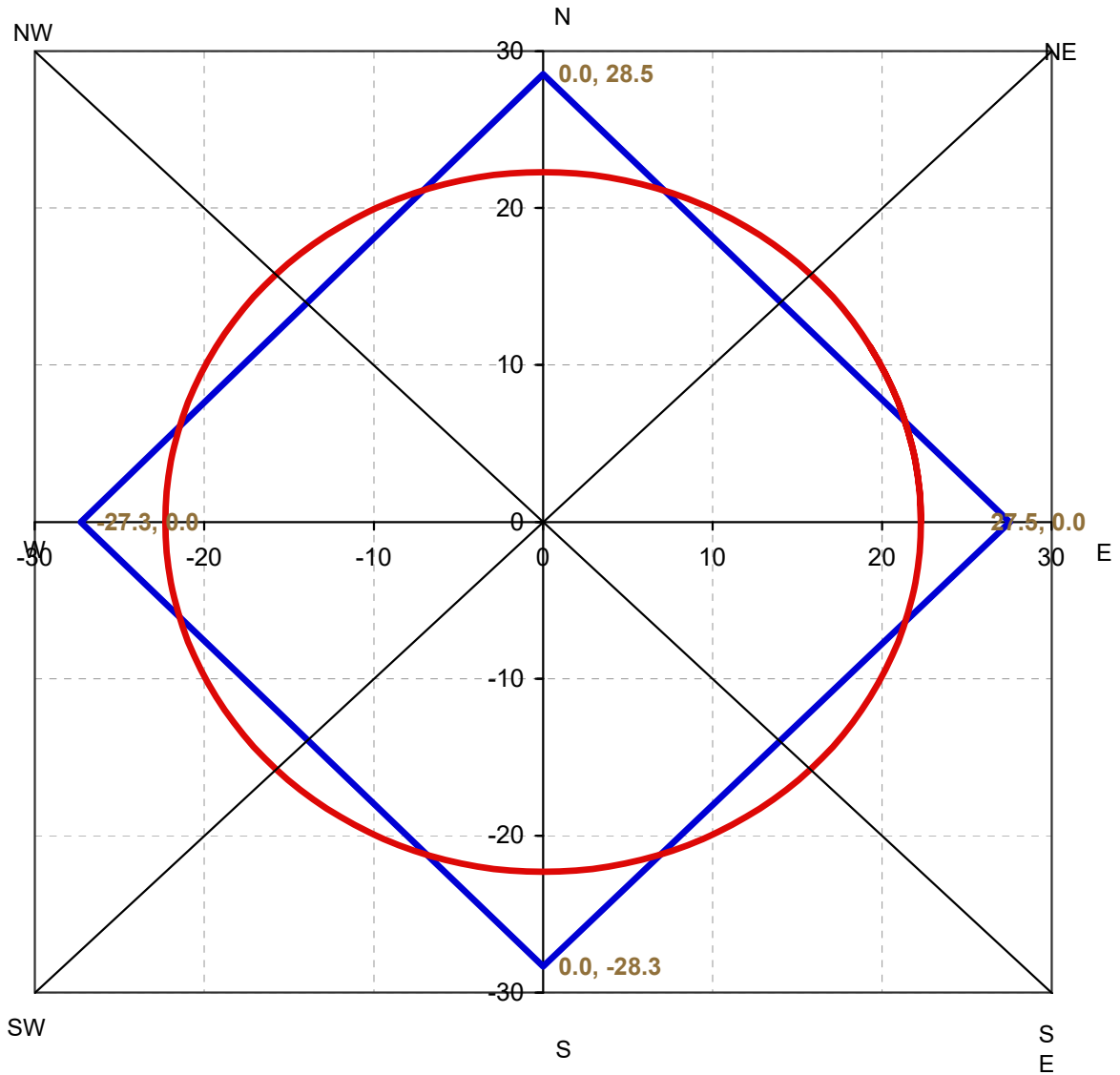
Apparent Resistivity Values (ERT-23)



Electrical Resistivity Test No.: ERT-23

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-23
Test Location : Space for Future Provision
Reduced Level : 109.395 m
Co-ordinate : 2212S, 1139W



Total Area of Polygon : 1559

Radius of Equivalent Circle=Mean Resistivity : 22 ohm-m

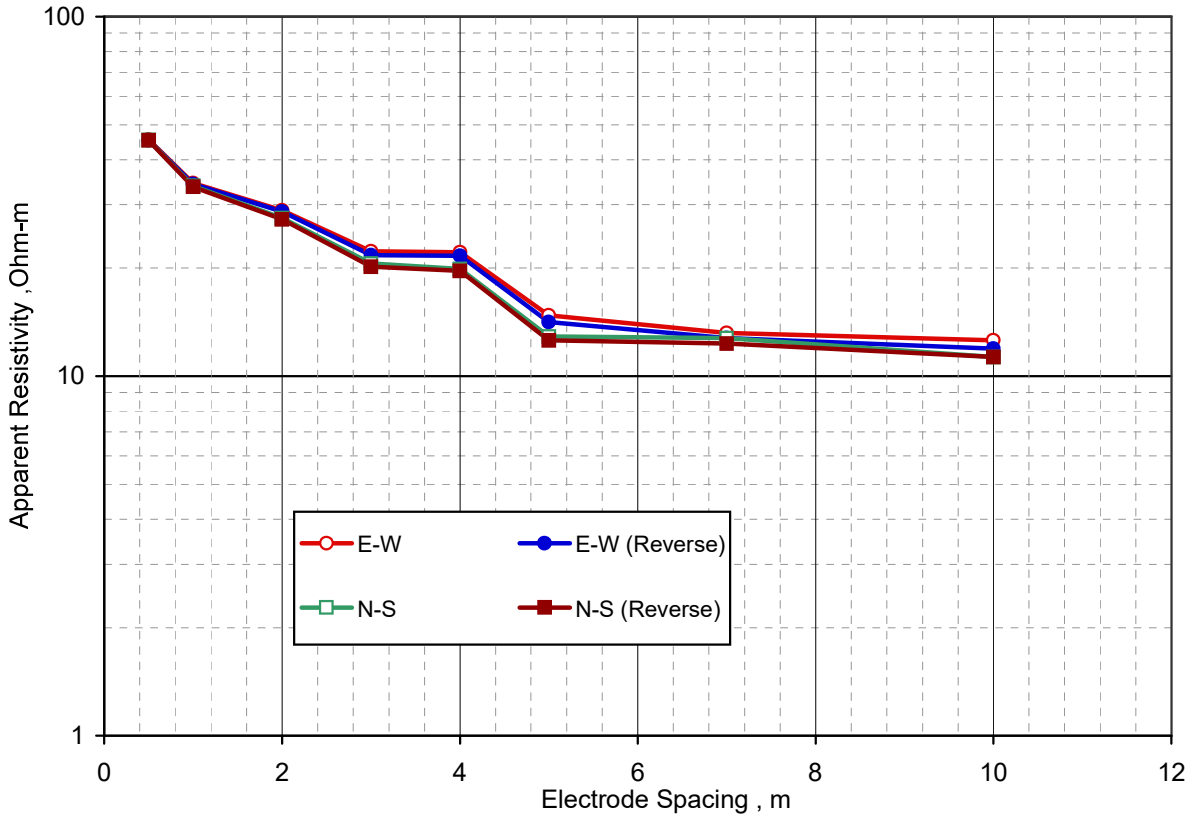
Polar Resistivity Curves (ERT-23)



Electrical Resistivity Test No.: ERT-24

IS: 3043-1987, RA-2006

Test Details	
Test Designation :	ERT-24
Test Location :	Space for Future Provision
Reduced Level :	207.958 m
Co-ordinate :	2231S, 1434W



Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
0.5	45.6	45.4	45.4	45.3
1.0	34.4	34.2	33.8	33.6
2.0	28.9	28.7	27.5	27.3
3.0	22.2	21.7	20.5	20.2
4.0	22.1	21.6	19.9	19.6
5.0	14.8	14.1	12.9	12.6
7.0	13.2	12.8	12.8	12.3
10.0	12.6	11.9	11.3	11.3
Mean Resistivity	31	30	29	29

Mean Resistivity Value, ohm-m : 23.8 ohm-m

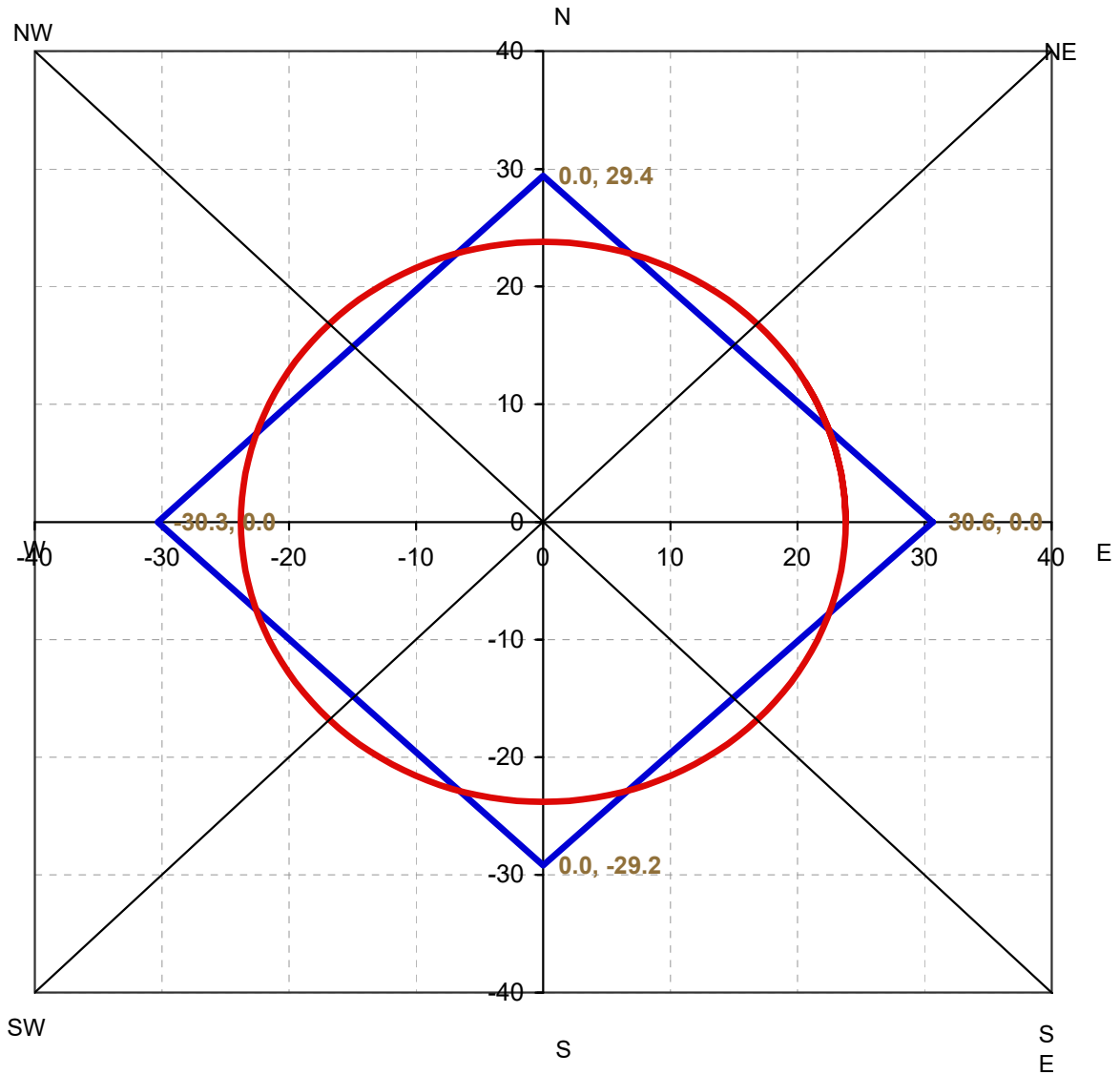
Apparent Resistivity Values (ERT-24)



Electrical Resistivity Test No.: ERT-24

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-24
Test Location : Space for Future Provision
Reduced Level : 207.958 m
Co-ordinate : 2231S, 1434W



Total Area of Polygon : 1787

Radius of Equivalent Circle=Mean Resistivity : 24 ohm-m

Polar Resistivity Curves (ERT-24)

progressively increased to reach the depth at which resistivity information are wanted. Suitable electrode spacing determines the conductivity of the top soil as well as the various subsurface layers occurring in the area under study. At each location, 4 sets of observations were taken for each of the electrode spacing (s) in ten directions (N-S, E-W, NE-SW & NW-SE) and in seven different electrode spacing viz.: s = 0.50m, 1.0m, 2.0m, 3.0m, 4.0m, 5.0m, 6.0m, 7.0m, 8.0m and 10.0m were used to know the nature of change of resistivity.

The apparent resistivity was determined by the formula –

$$\rho = 6.28 s \frac{\Delta V}{I} \text{ where 's' is the distance between the two consecutive}$$

Electrodes and $\frac{\Delta V}{I}$ is R which is the observed resistance for measuring resistivity.

A Resistivity Meter model DDR-3 of GEOSENSOR make was used during the operation. The mean value of the resistivity estimated was taken as the representative one.

The depth of investigation in an isotropic and homogeneous formation can be approximated to the distance between the consecutive two electrodes (s).

TEST RESULTS:

The overall mean resistivity values at each ERT locations are presented below

APPARENT RESISTIVITY VALUES

Sl. No.	ERT Location	Co-ordinate (M)			Overall Mean Resistivity (Ohm-m)
		Easting	Northing	RL	
1.	DERT-1	-581.00	-2042.00	204.820	131.26
2.	DERT-2	-631.00	-1830.00	205.015	24.10
3.	DERT-3	-252.00	-1943.00	203.070	61.40
4.	DERT-17	-1201.00	-1980.00	206.335	73.87
5.	DERT-18	-1161.00	-2076.00	206.650	79.98
6.	DERT-19	-925.00	-2081.00	209.165	106.05
7.	DERT-20	-920.00	-2144.00	209.990	258.50
8.	DERT-21	-1056.00	-2144.00	208.136	145.67
9.	DERT-22	-1194.00	-2157.00	207.730	187.57
10.	DERT-23	-966.00	-2246.00	210.350	209.23
11.	DERT-24	-966.00	-2247.00	211.720	131.24
12.	DERT-25	-1217.00	-2661.00	212.232	158.22
13.	DERT-26	-666.00	-1560.00	203.012	90.66
14.	DERT-28	-319.00	-2270.00	203.352	86.52
15.	DERT-29	-265.00	-2042.00	202.828	209.65
16.	DERT-30	381.00	-2619.00	202.170	94.97
17.	DERT-31	-513.00	-2500.00	205.080	94.60

Sl. No.	ERT Location	Co-ordinate (M)			Overall Mean Resistivity (Ohm-m)
		Easting	Northing	RL	
18.	DERT-32	-1208.00	-2387.00	211.620	205.06
19.	DERT-33	-1155.00	-2282.00	208.210	123.68
20.	DERT-34	-773.00	-2274.00	205.320	93.95
21.	DERT-35	-703.00	-2387.00	205.420	73.67
22.	DERT-36	-711.00	-2563.00	206.110	99.94
23.	DERT-37	-692.00	-2624.00	208.380	126.71

DERT No. 01

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	152.024	152.181	152.181	152.338	152.18
2	1.0	125.345	125.974	125.031	125.974	125.58
3	2.0	139.482	140.739	138.854	139.482	139.64
4	3.0	133.827	130.058	129.115	129.115	130.53
5	4.0	138.225	140.739	135.712	139.482	138.54
6	5.0	127.230	128.801	127.230	128.801	128.02
7	6.0	134.151	133.831	122.521	130.061	130.14
8	7.0	120.950	114.353	118.751	118.751	118.20
9	8.0	125.662	123.149	118.122	123.149	122.52
10	10.0	125.661	128.803	125.662	128.803	127.23

Mean Resistivity at DERT-01 is 131.26 Ohm - m.

DERT No. 02

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	47.429	47.271	47.115	47.272	47.27
2	1.0	24.829	25.132	24.503	24.527	24.75
3	2.0	21.990	22.618	20.733	22.618	21.99
4	3.0	20.733	43.351	17.906	19.791	25.45
5	4.0	20.105	22.618	18.848	21.361	20.73
6	5.0	17.906	18.220	17.592	18.220	17.98
7	6.0	20.734	19.980	19.226	19.603	19.89
8	7.0	19.352	20.231	19.791	18.912	19.57
9	8.0	19.603	20.105	20.608	20.106	20.11
10	10.0	23.247	23.247	22.619	23.875	23.25

Mean Resistivity at DERT-02 is 24.10 Ohm - m.

DERT No. 03

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	56.695	56.852	56.852	56.852	56.81
2	1.0	57.803	57.175	57.489	57.175	57.41
3	2.0	49.635	48.379	47.122	50.892	49.01
4	3.0	49.007	53.719	50.892	50.892	51.13
5	4.0	55.290	57.803	54.033	55.290	55.60
6	5.0	62.830	64.400	59.688	62.829	62.44
7	6.0	65.973	65.973	62.203	64.088	64.56
8	7.0	68.172	70.371	65.973	68.172	68.17
9	8.0	72.884	70.370	67.857	70.371	70.37
10	10.0	78.538	81.680	75.397	78.538	78.54

Mean Resistivity at DERT-03 is 61.40 Ohm - m.

DERT No. 17

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	361.215	361.529	361.843	361.372	361.49
2	1.0	150.163	150.477	150.477	150.791	150.48
3	2.0	43.980	45.237	46.494	45.237	45.24
4	3.0	24.503	27.330	28.273	27.330	26.86
5	4.0	18.848	20.105	22.618	20.105	20.42
6	5.0	20.419	23.561	25.131	25.132	23.56
7	6.0	18.849	22.619	28.274	24.504	23.56
8	7.0	24.190	26.389	26.389	26.389	25.84
9	8.0	27.645	30.159	25.132	30.158	28.27
10	10.0	31.415	31.415	34.551	34.556	32.98

Mean Resistivity at DERT-17 is 73.87 Ohm - m.

DERT No. 18

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	329.962	329.804	329.176	329.805	329.69
2	1.0	180.950	181.578	180.950	181.892	181.34
3	2.0	77.280	77.909	80.422	77.909	78.38
4	3.0	49.949	49.949	46.179	49.007	48.77
5	4.0	32.671	36.441	31.414	38.954	34.87
6	5.0	29.844	31.415	26.702	31.414	29.84
7	6.0	24.504	22.619	22.619	24.504	23.56
8	7.0	26.389	28.588	24.190	24.190	25.84
9	8.0	26.137	25.634	26.137	26.640	26.14
10	10.0	20.105	21.362	20.105	23.875	21.36

Mean Resistivity at DERT-18 is 79.98 Ohm - m.

DERT No. 19

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	260.231	260.231	259.917	260.074	260.11
2	1.0	201.056	202.312	200.427	201.370	201.29
3	2.0	113.094	113.722	111.837	113.093	112.94
4	3.0	87.647	86.705	81.992	82.935	84.82
5	4.0	66.599	67.856	62.830	64.086	65.34
6	5.0	64.400	67.542	59.688	59.688	62.83
7	6.0	62.203	60.318	56.548	58.433	59.38
8	7.0	68.172	63.459	63.773	65.973	65.34
9	8.0	70.370	72.884	70.371	62.831	69.11
10	10.0	75.397	81.680	78.538	81.680	79.32

Mean Resistivity at DERT-19 is 106.05 Ohm - m.

DERT No. 20

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	597.418	597.104	597.418	596.789	597.18
2	1.0	706.209	704.952	704.952	703.067	704.80
3	2.0	449.862	449.234	451.119	444.208	448.61
4	3.0	263.886	266.712	264.828	265.770	265.30
5	4.0	129.429	133.199	133.199	133.199	132.26
6	5.0	109.952	114.664	117.806	114.664	114.27
7	6.0	92.362	96.132	96.132	96.132	95.19
8	7.0	79.167	83.565	85.764	83.565	83.02
9	8.0	62.831	67.857	70.371	77.910	69.74
10	10.0	75.397	72.255	72.255	78.538	74.61

Mean Resistivity at DERT-20 is 258.50 Ohm - m.

DERT No. 21

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	562.396	561.610	561.767	562.239	562.00
2	1.0	401.169	402.740	402.112	403.054	402.27
3	2.0	203.569	204.197	204.197	204.197	204.04
4	3.0	102.726	98.014	99.899	101.784	100.61
5	4.0	47.750	46.494	47.750	50.264	48.06
6	5.0	36.127	31.415	37.698	42.410	36.91
7	6.0	22.619	20.734	24.504	26.389	23.56
8	7.0	21.991	19.791	19.791	24.190	21.44
9	8.0	27.645	25.132	25.132	27.645	26.39
10	10.0	31.415	28.273	34.556	31.415	31.41

Mean Resistivity at DERT-21 is 145.67 Ohm - m.

DERT No. 22

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	436.599	436.598	436.756	436.756	436.68
2	1.0	507.666	506.409	506.095	506.409	506.64
3	2.0	302.840	305.353	304.725	303.468	304.10
4	3.0	227.130	226.188	227.130	230.899	227.84
5	4.0	144.508	144.508	144.508	145.765	144.82
6	5.0	92.674	98.957	98.957	100.528	97.78
7	6.0	56.548	62.203	65.203	65.973	62.48
8	7.0	28.588	30.787	32.986	30.787	30.79
9	8.0	27.645	30.159	35.185	30.158	30.79
10	10.0	34.556	31.415	34.556	34.556	33.77

Mean Resistivity at DERT-22 is 187.57 Ohm - m.

DERT No. 23

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	596.004	596.318	596.318	596.161	596.20
2	1.0	351.848	351.533	350.905	351.847	351.53
3	2.0	300.955	301.584	297.814	298.442	299.70
4	3.0	229.957	228.072	228.072	228.072	228.54
5	4.0	191.003	191.003	188.490	188.489	189.75
6	5.0	141.367	146.079	133.513	138.226	139.80
7	6.0	103.672	101.787	94.247	96.132	98.96
8	7.0	65.972	68.172	63.773	65.973	65.97
9	8.0	60.318	55.291	50.265	57.804	55.92
10	10.0	69.114	65.972	62.830	65.972	65.97

Mean Resistivity at DERT-23 is 209.23 Ohm - m.

DERT No. 24

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	280.020	279.863	279.549	280.020	279.86
2	1.0	251.320	251.633	250.377	250.063	250.85
3	2.0	191.631	192.259	188.490	191.062	190.86
4	3.0	146.079	123.907	147.964	143.252	140.30
5	4.0	110.580	109.324	110.580	106.810	109.32
6	5.0	64.400	62.830	59.688	62.829	62.44
7	6.0	62.203	64.088	58.433	60.318	61.26
8	7.0	70.371	63.775	57.176	63.775	63.77
9	8.0	71.878	72.883	70.371	71.878	71.75
10	10.0	85.308	79.795	81.051	81.680	81.96

Mean Resistivity at DERT-24 is 131.24 Ohm - m.

DERT No. 25

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	452.618	452.303	452.304	452.461	452.42
2	1.0	333.313	333.627	331.427	332.370	332.68
3	2.0	250.063	251.948	251.320	253.204	251.63
4	3.0	116.863	116.863	114.978	116.863	116.39
5	4.0	94.240	87.961	89.218	91.731	90.79
6	5.0	72.254	67.542	65.971	69.113	68.72
7	6.0	52.778	52.778	49.008	58.433	53.25
8	7.0	62.454	60.255	62.014	63.334	62.01
9	8.0	70.370	67.354	69.365	68.360	68.86
10	10.0	87.963	83.564	83.565	86.706	85.45

Mean Resistivity at DERT-25 is 158.22 Ohm - m.

DERT No. 26

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	149.354	149.040	149.511	149.982	149.47
2	1.0	125.659	125.660	125.974	125.974	125.82
3	2.0	125.660	123.774	125.031	127.544	125.50
4	3.0	108.381	109.324	105.554	105.554	107.20
5	4.0	91.731	90.475	87.962	86.705	89.22
6	5.0	67.542	70.683	65.971	69.113	68.33
7	6.0	64.088	64.088	58.433	62.203	62.20
8	7.0	63.773	59.375	50.579	54.977	57.18
9	8.0	58.307	59.815	58.307	55.793	58.06
10	10.0	62.202	64.087	64.087	64.087	63.62

Mean Resistivity at DERT-26 is 90.66 Ohm - m.

DERT No. 28

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	48.999	48.999	48.999	49.156	49.04
2	1.0	53.719	54.033	53.091	53.405	53.56
3	2.0	70.369	70.997	70.369	71.625	70.84
4	3.0	81.050	79.165	82.935	78.223	80.34
5	4.0	87.962	90.475	86.705	84.191	87.33
6	5.0	98.957	95.815	91.103	91.103	94.24
7	6.0	101.787	101.787	96.132	99.902	99.90
8	7.0	98.959	112.154	105.556	103.357	105.01
9	8.0	110.583	110.582	108.069	105.556	108.70
10	10.0	122.520	113.095	113.095	116.236	116.24

Mean Resistivity at DERT-28 is 86.52 Ohm - m.

DERT No. 29

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	206.677	206.206	206.206	206.834	206.48
2	1.0	152.676	151.734	150.792	150.477	151.42
3	2.0	185.348	185.976	187.233	189.118	186.92
4	3.0	200.741	201.684	198.856	199.799	200.27
5	4.0	226.188	229.957	229.957	228.701	228.70
6	5.0	219.905	224.617	224.617	219.904	222.26
7	6.0	209.229	207.344	207.344	201.689	206.40
8	7.0	239.701	233.104	226.507	239.701	234.75
9	8.0	228.705	218.652	221.166	226.192	223.68
10	10.0	235.615	229.332	235.615	241.890	235.61

Mean Resistivity at DERT-29 is 209.65 Ohm - m.

DERT No. 30

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	135.377	135.377	135.063	135.377	135.30
2	1.0	103.041	104.040	102.726	102.726	103.13
3	2.0	82.935	83.563	80.422	81.050	81.99
4	3.0	81.050	79.165	78.223	81.050	79.87
5	4.0	84.192	80.422	79.165	77.909	80.42
6	5.0	84.820	81.678	81.678	84.820	83.25
7	6.0	90.477	92.362	86.707	92.362	90.48
8	7.0	92.362	94.561	94.561	96.760	94.56
9	8.0	100.529	100.529	95.503	98.016	98.64
10	10.0	103.670	100.529	103.670	100.529	102.10

Mean Resistivity at DERT-30 is 94.97 Ohm - m.

DERT No. 31

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	113.390	113.075	113.390	113.076	113.23
2	1.0	93.616	94.245	93.302	94.244	93.85
3	2.0	88.590	89.218	86.077	89.846	88.43
4	3.0	86.705	91.417	84.820	87.647	87.65
5	4.0	81.678	84.191	82.935	82.935	82.93
6	5.0	94.244	95.815	91.103	95.815	94.24
7	6.0	82.937	94.247	86.707	88.592	88.12
8	7.0	87.963	90.162	90.163	96.760	91.26
9	8.0	100.530	100.529	95.503	98.016	98.64
10	10.0	103.670	109.953	109.953	106.812	107.60

Mean Resistivity at DERT-31 is 94.60 Ohm - m.

DERT No. 32

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	502.245	502.402	502.245	502.559	502.36
2	1.0	395.200	395.514	393.629	393.944	394.57
3	2.0	231.842	231.214	229.957	231.214	231.06
4	3.0	219.590	219.590	215.820	218.648	218.41
5	4.0	183.463	183.463	185.976	182.206	183.78
6	5.0	161.787	163.358	160.216	158.645	161.00
7	6.0	120.636	118.751	113.097	118.751	117.81
8	7.0	92.362	94.561	96.760	90.162	93.46
9	8.0	75.397	77.910	72.884	80.424	76.65
10	10.0	72.255	78.538	65.972	69.114	71.47

Mean Resistivity at DERT-32 is 205.06 Ohm - m.

DERT No. 33

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	261.017	261.331	261.174	261.017	261.13
2	1.0	250.691	251.633	250.377	251.948	251.16
3	2.0	194.772	194.144	192.888	193.516	193.83
4	3.0	115.920	116.863	113.094	114.978	115.21
5	4.0	84.191	81.678	80.422	80.422	81.68
6	5.0	73.825	72.254	65.971	70.683	70.68
7	6.0	69.743	75.397	67.818	73.513	71.62
8	7.0	70.371	72.570	65.973	68.172	69.27
9	8.0	60.318	60.318	55.291	55.291	57.80
10	10.0	65.972	62.830	62.830	65.972	64.40

Mean Resistivity at DERT-33 is 123.68 Ohm - m.

DERT No. 34

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	124.069	124.540	124.697	124.383	124.42
2	1.0	107.439	107.439	107.125	108.381	107.60
3	2.0	111.209	111.208	110.580	111.837	111.21
4	3.0	113.094	114.978	115.920	114.978	114.74
5	4.0	115.607	116.863	115.607	114.350	115.61
6	5.0	95.815	97.386	97.386	97.386	96.99
7	6.0	75.398	77.282	77.282	67.858	74.46
8	7.0	61.574	61.574	68.172	68.172	64.87
9	8.0	67.857	57.804	60.318	65.344	62.83
10	10.0	62.831	72.255	65.972	65.972	66.76

Mean Resistivity at DERT-34 is 93.95 Ohm - m.

DERT No. 35

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	78.525	78.210	78.210	78.210	78.29
2	1.0	71.940	71.311	71.625	71.940	71.70
3	2.0	89.218	89.846	91.103	90.475	90.16
4	3.0	88.590	92.360	86.705	89.532	89.30
5	4.0	67.856	69.112	65.343	65.343	66.91
6	5.0	65.971	67.542	62.830	62.829	64.79
7	6.0	65.973	67.858	62.203	62.203	64.56
8	7.0	65.973	72.570	61.574	63.773	65.97
9	8.0	70.370	72.884	67.857	57.804	67.23
10	10.0	81.680	75.397	78.538	75.397	77.75

Mean Resistivity at DERT-35 is 73.67 Ohm - m.

DERT No. 36

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	187.674	187.360	187.831	187.203	187.52
2	1.0	108.067	107.125	107.125	106.811	107.28
3	2.0	91.103	92.359	91.103	90.475	91.26
4	3.0	81.992	82.935	85.762	86.705	84.35
5	4.0	75.395	72.882	75.396	75.395	74.77
6	5.0	81.679	86.391	81.678	89.532	84.82
7	6.0	81.052	86.707	88.592	90.477	86.71
8	7.0	85.764	90.163	87.964	87.963	87.96
9	8.0	92.990	98.016	92.990	92.990	94.25
10	10.0	100.529	100.529	103.670	97.387	100.53

Mean Resistivity at DERT-36 is 99.94 Ohm - m.

DERT No. 37

SI No.	S (M)	Apparent Electrical Resistivity (Ohm-m)				Mean
		(N - S)	(E - W)	(NE - SW)	(NW - SE)	
1	0.50	417.281	417.124	417.595	417.281	417.32
2	1.0	264.514	264.828	264.514	263.866	264.43
3	2.0	79.165	80.422	80.422	80.422	80.11
4	3.0	65.971	68.798	69.741	70.683	68.80
5	4.0	59.060	61.573	57.803	62.830	60.32
6	5.0	62.830	65.971	64.400	67.542	65.19
7	6.0	64.088	65.973	65.973	64.080	65.03
8	7.0	74.769	72.570	81.366	72.570	75.32
9	8.0	77.910	80.424	85.450	80.423	81.05
10	10.0	84.821	87.963	90.963	94.246	89.50

Mean Resistivity at DERT-37 is 126.71 Ohm - m.

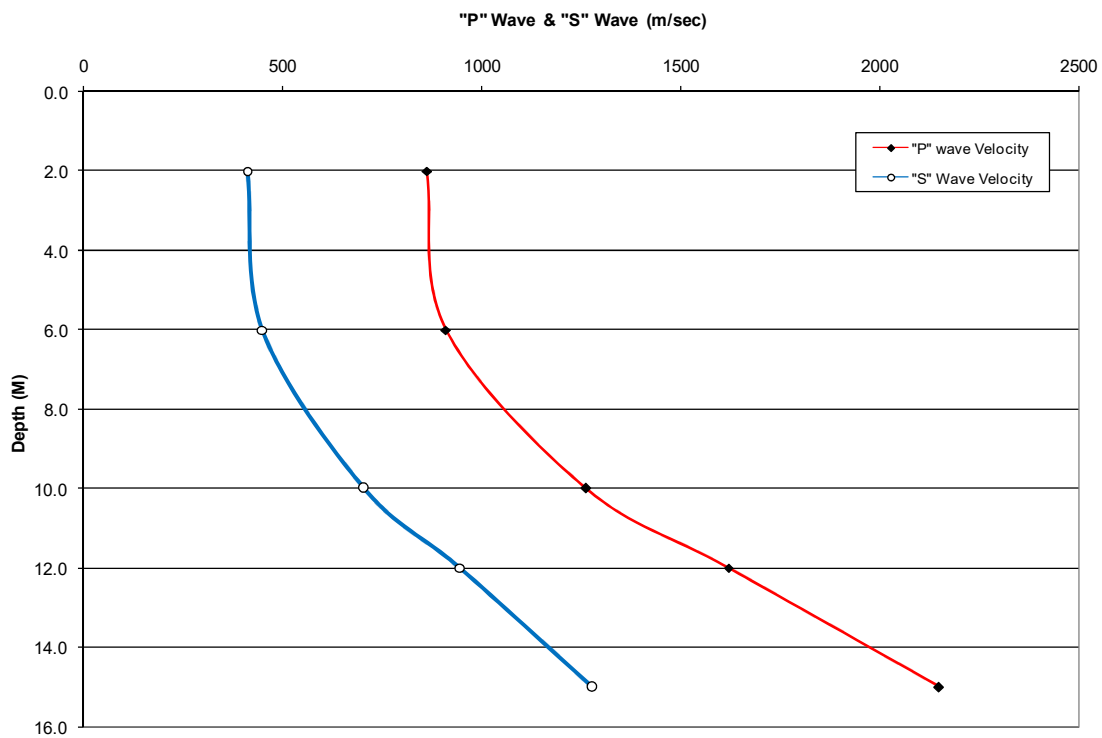
FIELD PERMEABILITY TEST RESULTS

Test Locations	Type of Test	Depth of Test (M)	Permeability (cm/s)
DBH-51	Falling Head	0.50 – 1.50	1.146×10^{-6}
	Falling Head	4.50 – 5.50	2.662×10^{-6}
	Double Packer	6.25 – 7.75	9.185×10^{-6}
	Double Packer	9.25 – 10.75	1.570×10^{-5}
	Double Packer	13.25 – 14.75	1.506×10^{-4}
DBH-52	Falling Head	0.80 – 1.80	7.260×10^{-6}
	Falling Head	4.50 – 5.50	3.596×10^{-6}
	Falling Head	6.50 – 7.50	6.886×10^{-7}
	Falling Head	9.50 – 10.50	1.690×10^{-6}
	Double Packer	13.25 – 14.75	2.571×10^{-4}
DBH-83	Falling Head	0.60 – 1.40	1.207×10^{-6}
	Falling Head	4.70 – 5.50	1.043×10^{-6}
	Falling Head	6.50 – 7.30	5.208×10^{-6}
	Double Packer	9.70 – 10.40	8.423×10^{-5}
	Double Packer	13.80 – 14.50	2.932×10^{-5}
DBH-100	Falling Head	0.50 – 1.50	1.034×10^{-6}
	Falling Head	4.50 – 5.50	9.761×10^{-7}
	Double Packer	6.25 – 7.75	2.554×10^{-5}
	Double Packer	9.25 – 10.75	4.771×10^{-5}
	Double Packer	13.25 – 14.75	5.160×10^{-5}
DBH-120	Falling Head	0.50 – 1.50	5.838×10^{-6}
	Falling Head	4.50 – 5.50	9.262×10^{-6}
	Falling Head	6.50 – 7.50	1.191×10^{-5}
	Double Packer	9.25 – 10.75	9.122×10^{-5}
	Double Packer	13.25 – 14.75	1.441×10^{-4}
DBH-143	Falling Head	0.80 – 1.60	8.327×10^{-6}
	Double Packer	4.25 – 5.75	2.618×10^{-6}
	Double Packer	6.25 – 7.75	2.988×10^{-6}
	Double Packer	9.25 – 10.75	3.043×10^{-6}
	Double Packer	13.25 – 14.75	7.980×10^{-6}
DBH-147	Falling Head	0.50 – 1.50	1.110×10^{-4}
	Falling Head	4.50 – 5.50	9.013×10^{-7}
	Falling Head	6.50 – 7.50	1.034×10^{-6}
	Falling Head	9.50 – 10.50	1.380×10^{-6}
	Double Packer	13.25 – 14.75	1.020×10^{-4}

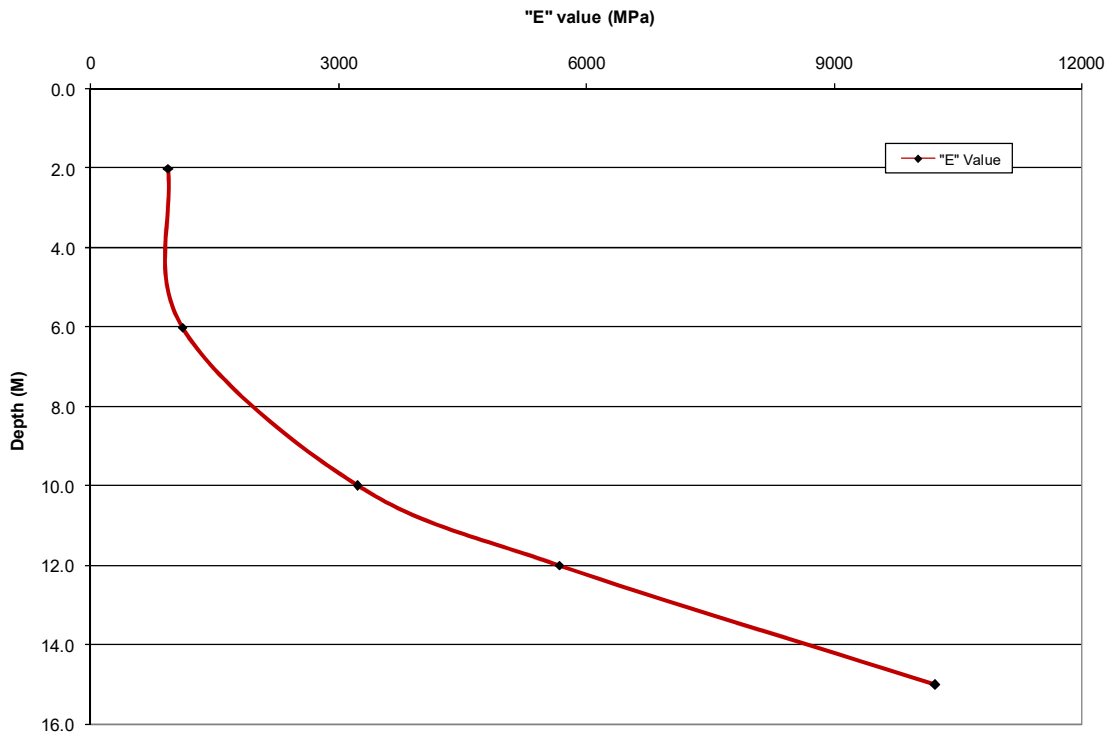
Test Locations	Type of Test	Depth of Test (M)	Permeability (cm/s)
DBH-150	Falling Head	0.50 – 1.50	2.889×10^{-6}
	Falling Head	4.50 – 5.50	5.718×10^{-6}
	Double Packer	6.25 – 7.75	1.646×10^{-4}
	Double Packer	9.25 – 10.75	2.865×10^{-5}
	Double Packer	13.25 – 14.75	1.105×10^{-4}
DBH-170	Falling Head	0.80 – 1.60	6.630×10^{-6}
	Falling Head	4.80 – 5.60	9.290×10^{-6}
	Falling Head	7.80 – 8.60	1.581×10^{-5}

Cross Hole Test: CHST-1
Calculated Values of Dynamic Parameters

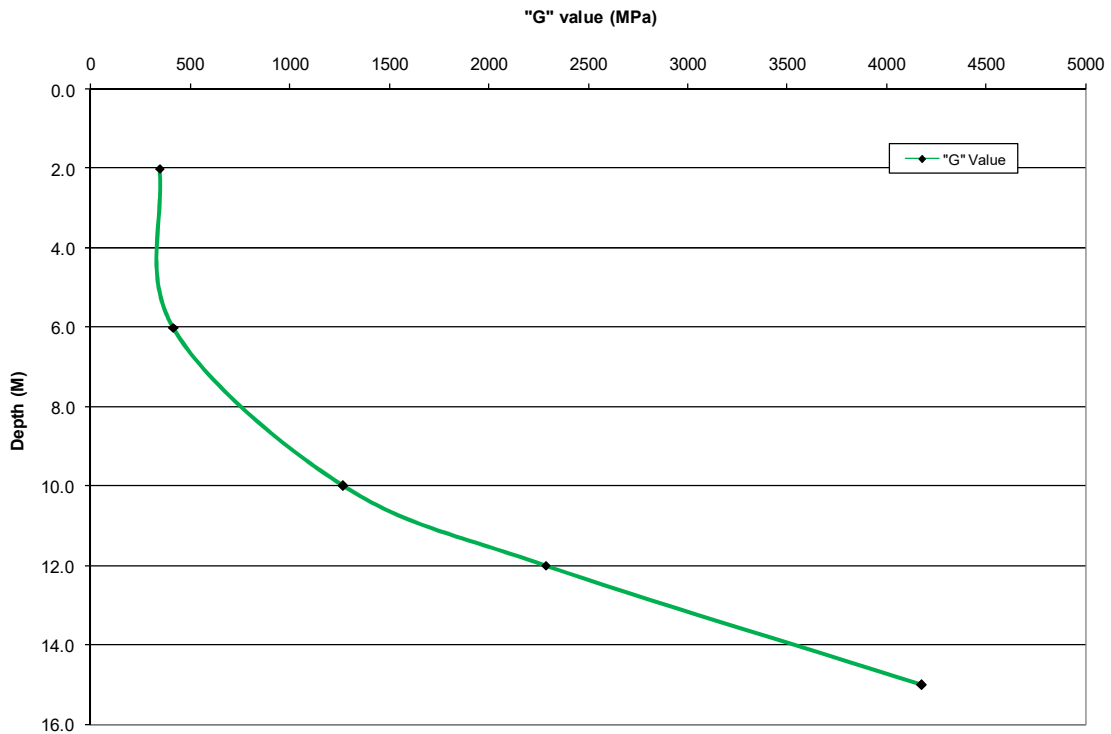
Depth (M) BGL	V _p (m/s)	V _s (m/s)	Mass Density (kN.s ² /m ⁴)	m = V _p /V _s	Poisson Ratio, σ	Young's Modulus (kN/m ²)	Young's Modulus (MPa)	Shear Modulus (kN/m ²)	Shear Modulus (MPa)
2.0	862	411	2.04	2.0973	0.353	931829	931.8	344385	344.4
6.0	910	450	2.04	2.0222	0.338	1104899	1104.9	412844	412.8
10.0	1262	705	2.55	1.7901	0.273	3225282	3225.3	1266628	1266.6
12.0	1620	947	2.55	1.7107	0.240	5669941	5669.9	2285446	2285.4
15.0	2150	1280	2.55	1.6797	0.225	10233556	10233.6	4175331	4175.3



Variation of "P" & "S" wave Velocity with Depth



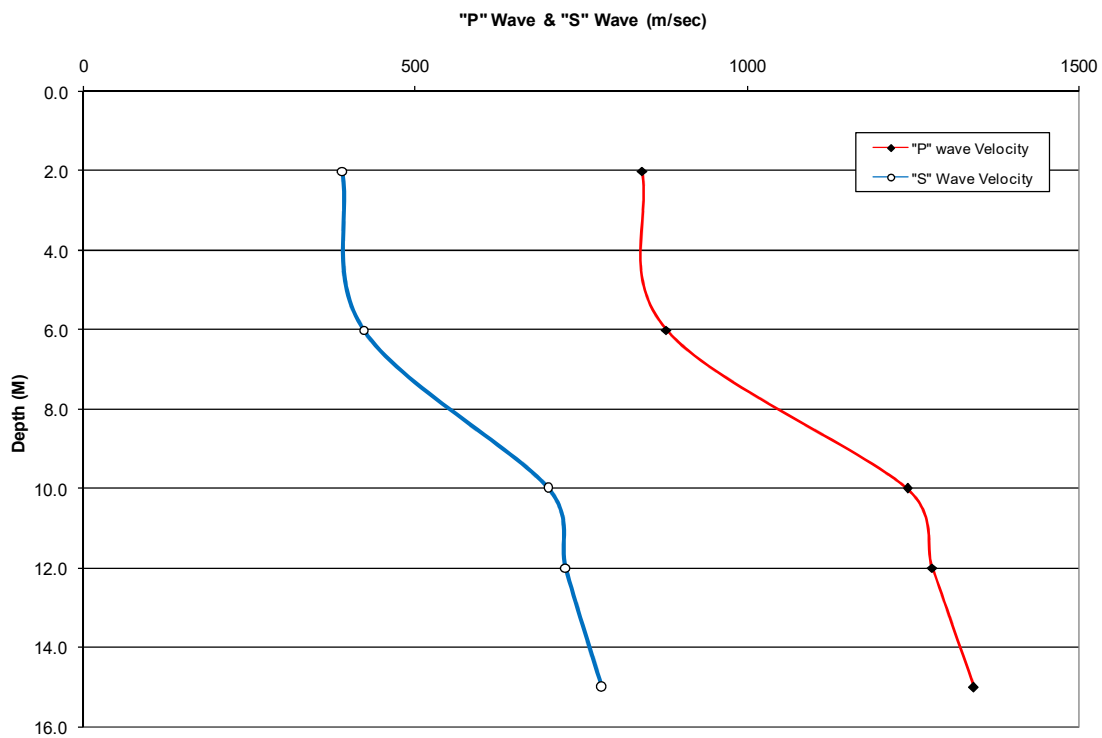
Variation of "E" with Depth



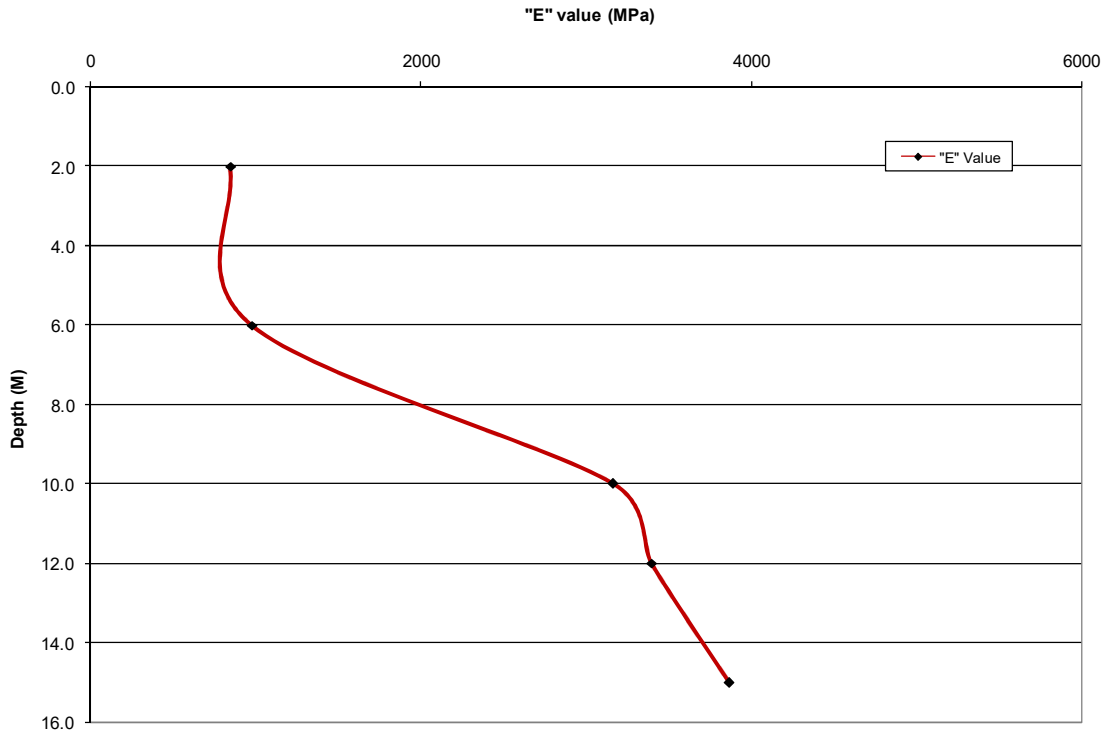
Variation of "G" with Depth

Cross Hole Test: CHST-2
Calculated Values of Dynamic Parameters

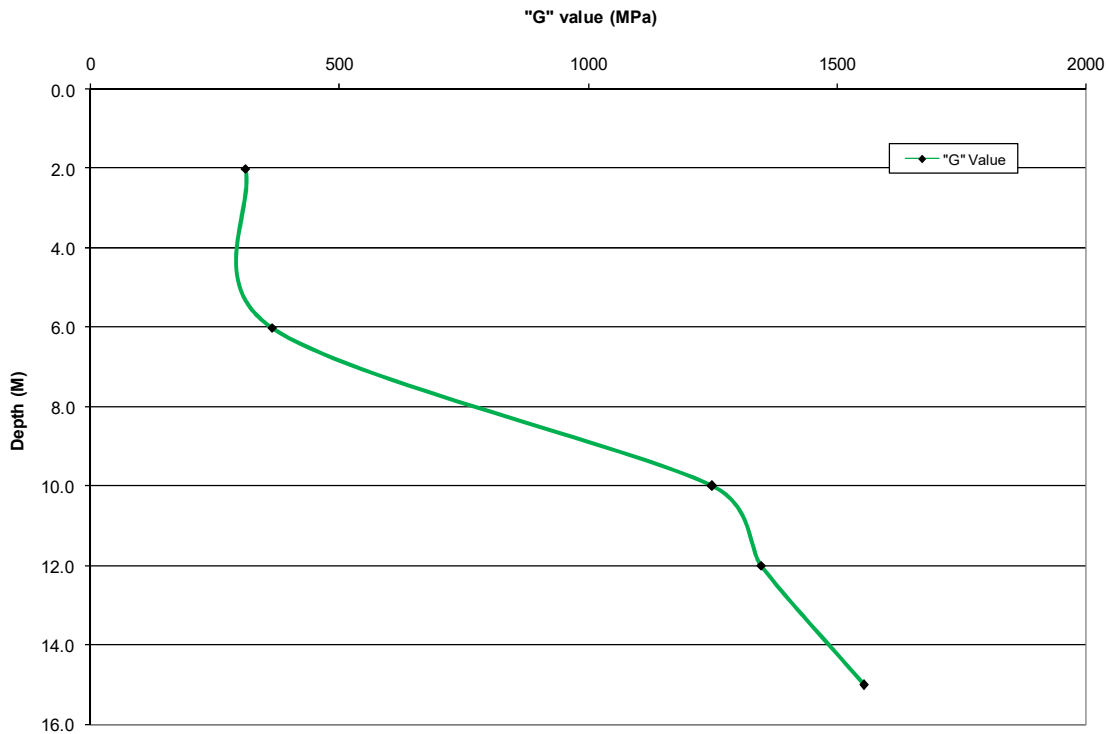
Depth (M) BGL	V _p (m/s)	V _s (m/s)	Mass Density (kN.s ² /m ⁴)	m = V _p /V _s	Poisson Ratio, σ	Young's Modulus (kN/m ²)	Young's Modulus (MPa)	Shear Modulus (kN/m ²)	Shear Modulus (MPa)
2.0	842	390	2.04	2.1590	0.363	845578	845.6	310092	310.1
6.0	878	422	2.04	2.0806	0.350	980129	980.1	363066	363.1
10.0	1242	700	2.55	1.7743	0.267	3164858	3164.9	1248726	1248.7
12.0	1280	727	2.55	1.7607	0.262	3399331	3399.3	1346914	1346.9
15.0	1342	781	2.55	1.7183	0.244	3867220	3867.2	1554437	1554.4



Variation of "P" & "S" wave Velocity with Depth



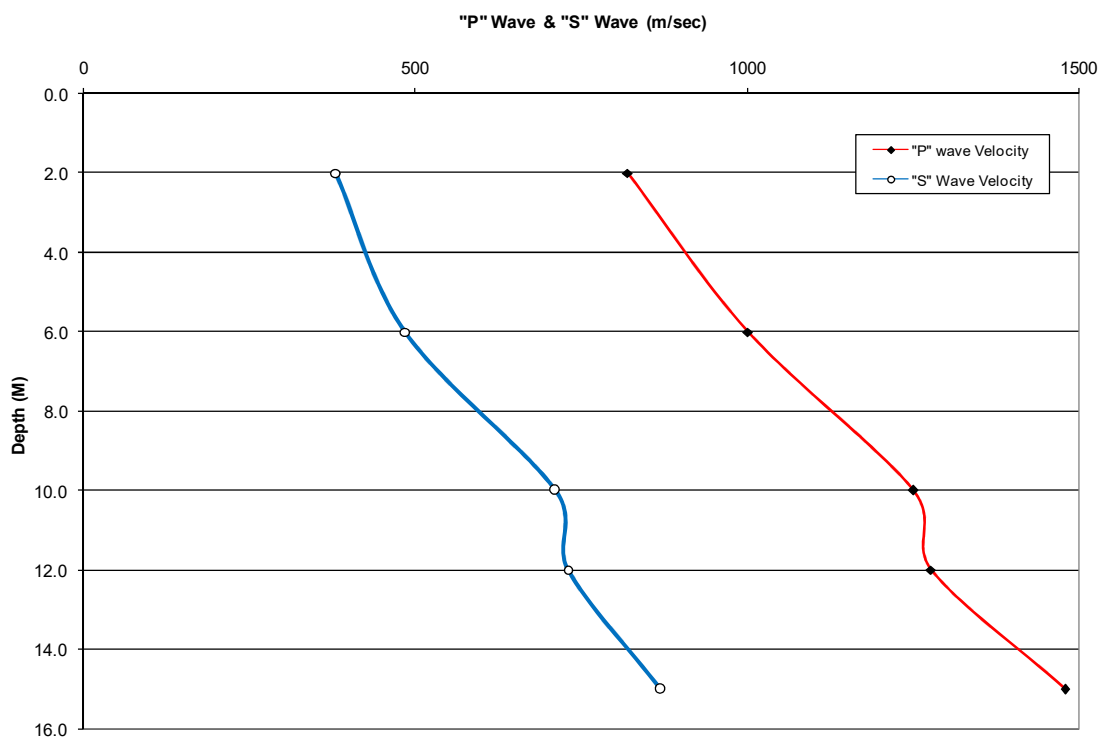
Variation of "E" with Depth



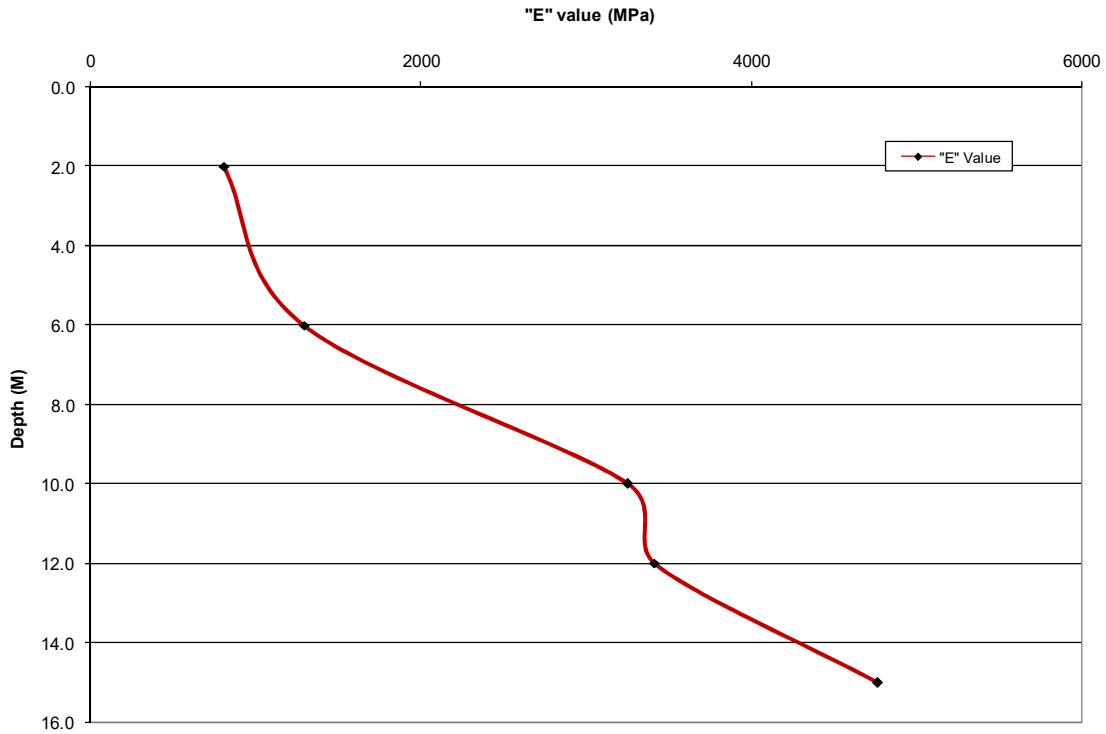
Variation of "G" with Depth

Cross Hole Test: CHST-3
Calculated Values of Dynamic Parameters

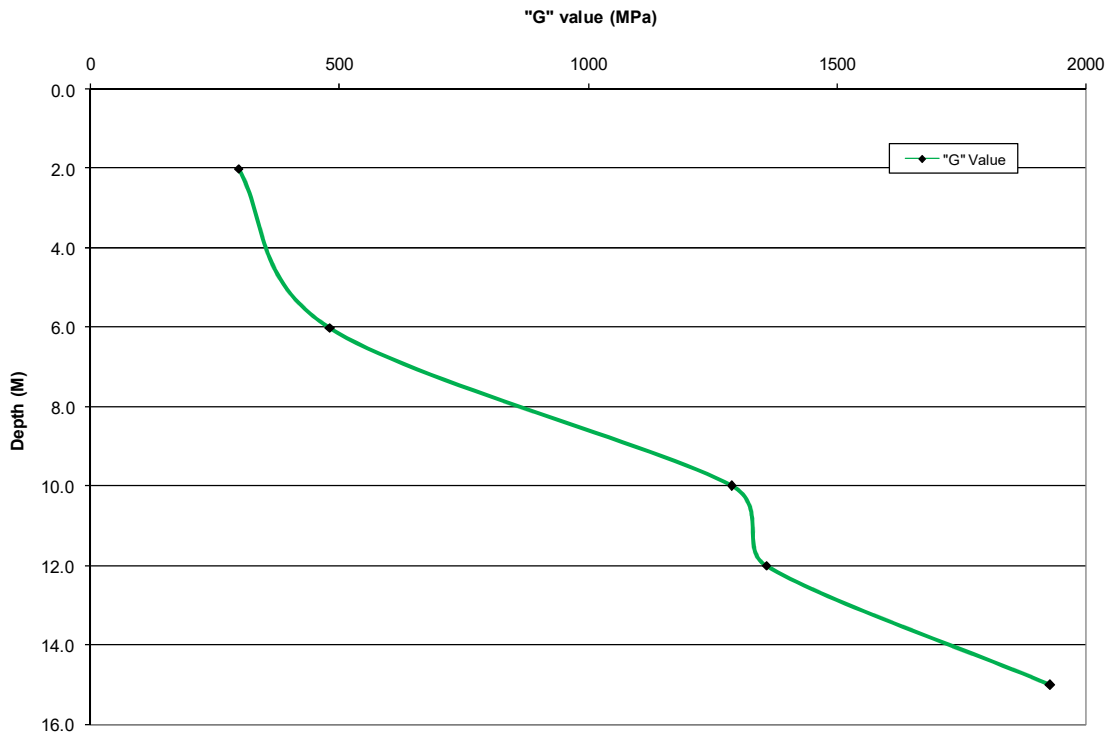
Depth (M) BGL	V _p (m/s)	V _s (m/s)	Mass Density (kN.s ² /m ⁴)	m = V _p /V _s	Poisson Ratio, σ	Young's Modulus (kN/m ²)	Young's Modulus (MPa)	Shear Modulus (kN/m ²)	Shear Modulus (MPa)
2.0	820	381	2.04	2.1522	0.362	806354	806.4	295945	295.9
6.0	1001	485	2.04	2.0639	0.347	1291569	1291.6	479562	479.6
10.0	1251	711	2.55	1.7595	0.261	3250149	3250.1	1288280	1288.3
12.0	1278	730	2.55	1.7507	0.258	3416474	3416.5	1358053	1358.1
15.0	1480	870	2.55	1.7011	0.236	4768222	4768.2	1928899	1928.9



Variation of "P" & "S" wave Velocity with Depth



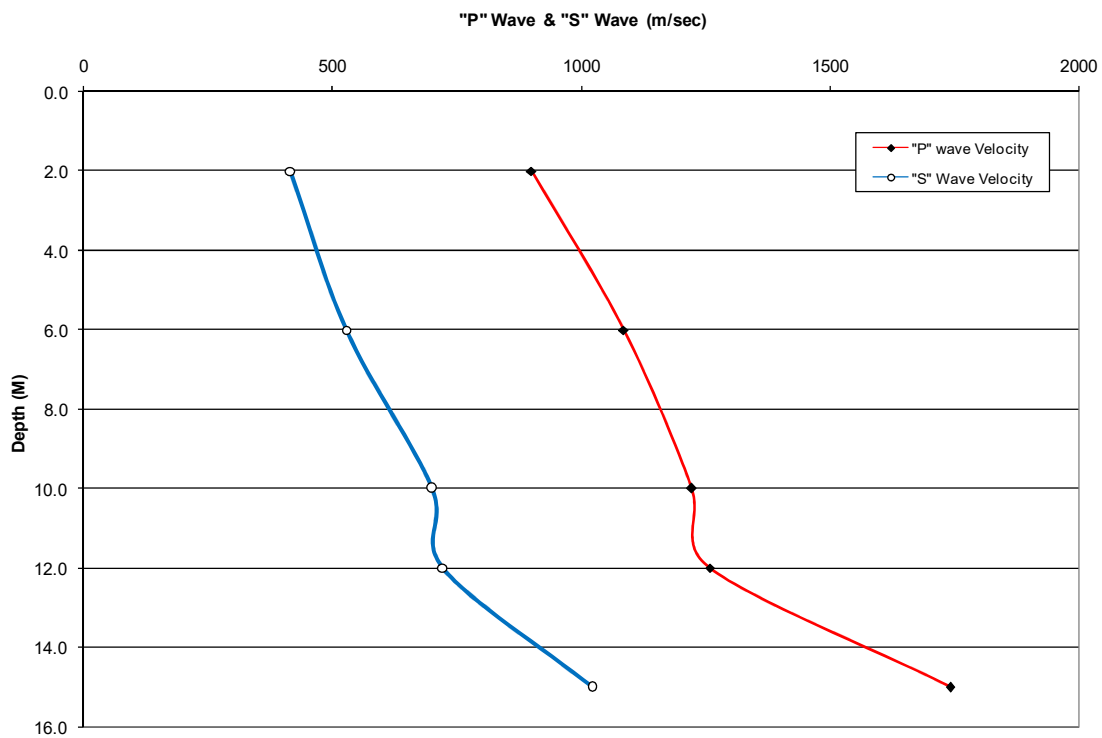
Variation of "E" with Depth



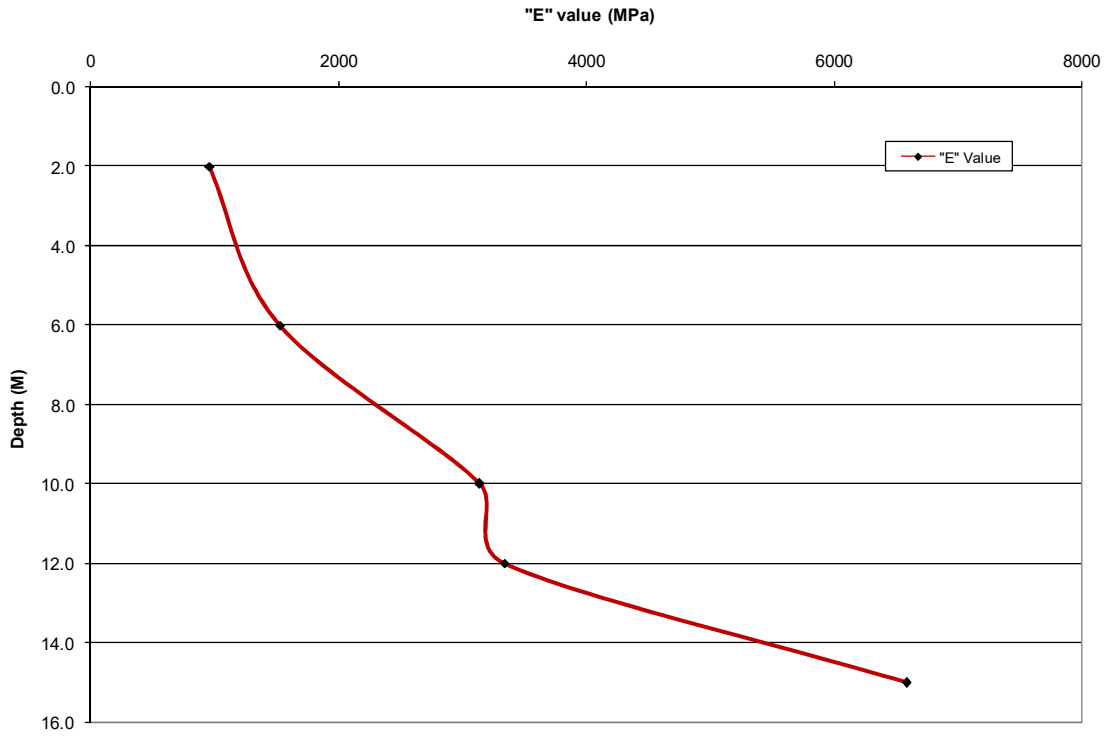
Variation of "G" with Depth

Cross Hole Test: CHST-4
Calculated Values of Dynamic Parameters

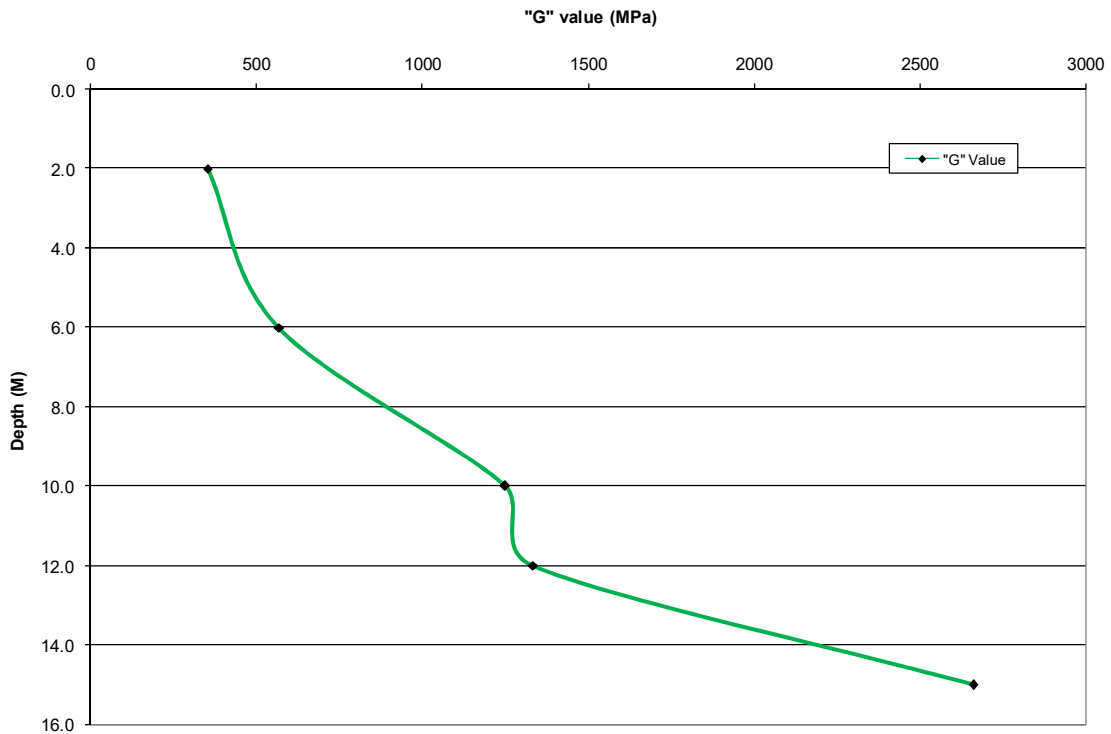
Depth (M) BGL	V _p (m/s)	V _s (m/s)	Mass Density (kN.s ² /m ⁴)	m = V _p /V _s	Poisson Ratio, σ	Young's Modulus (kN/m ²)	Young's Modulus (MPa)	Shear Modulus (kN/m ²)	Shear Modulus (MPa)
2.0	900	415	2.04	2.1687	0.365	958547	958.5	351121	351.1
6.0	1085	527	2.04	2.0588	0.346	1523823	1523.8	566216	566.2
10.0	1222	700	2.55	1.7457	0.256	3136305	3136.3	1248726	1248.7
12.0	1258	723	2.55	1.7400	0.253	3339368	3339.4	1332133	1332.1
15.0	1742	1022	2.55	1.7045	0.238	6588327	6588.3	2661784	2661.8



Variation of "P" & "S" wave Velocity with Depth



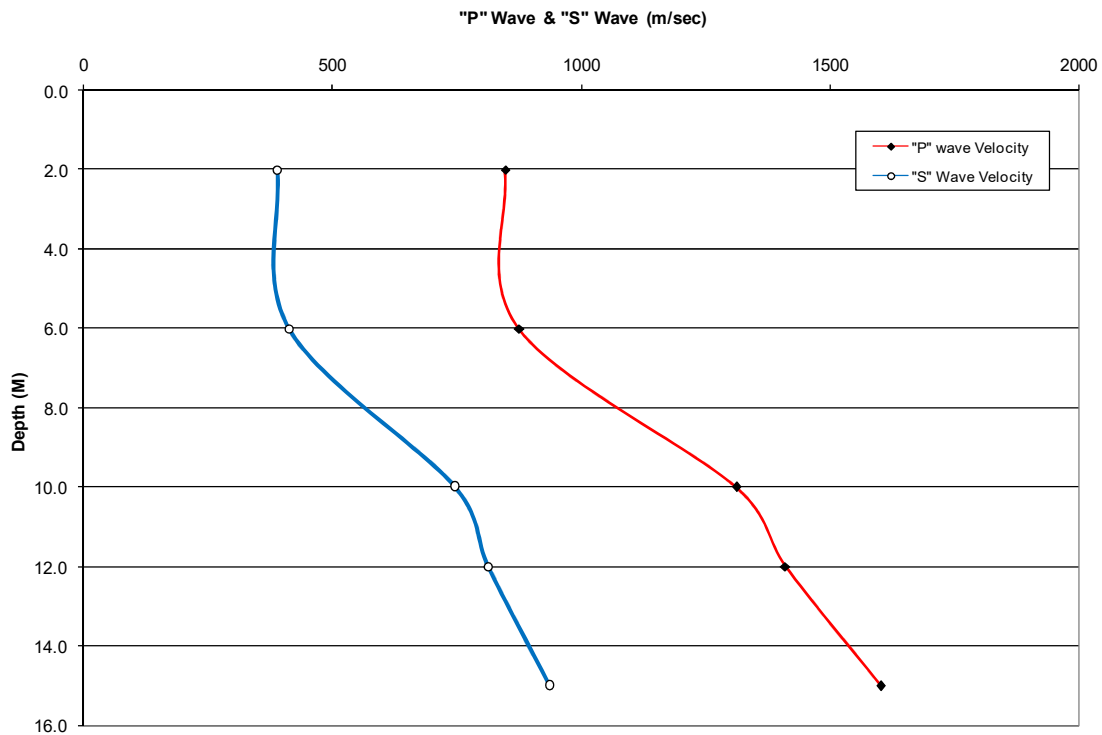
Variation of "E" with Depth



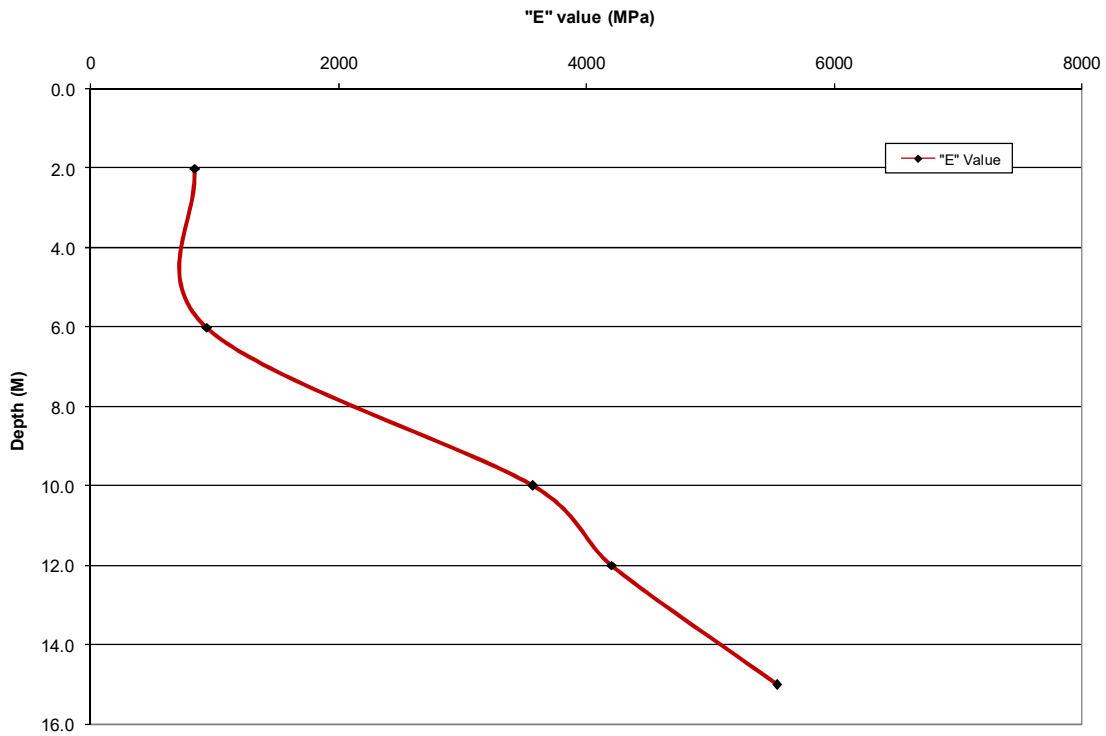
Variation of "G" with Depth

Cross Hole Test: CHST-5
Calculated Values of Dynamic Parameters

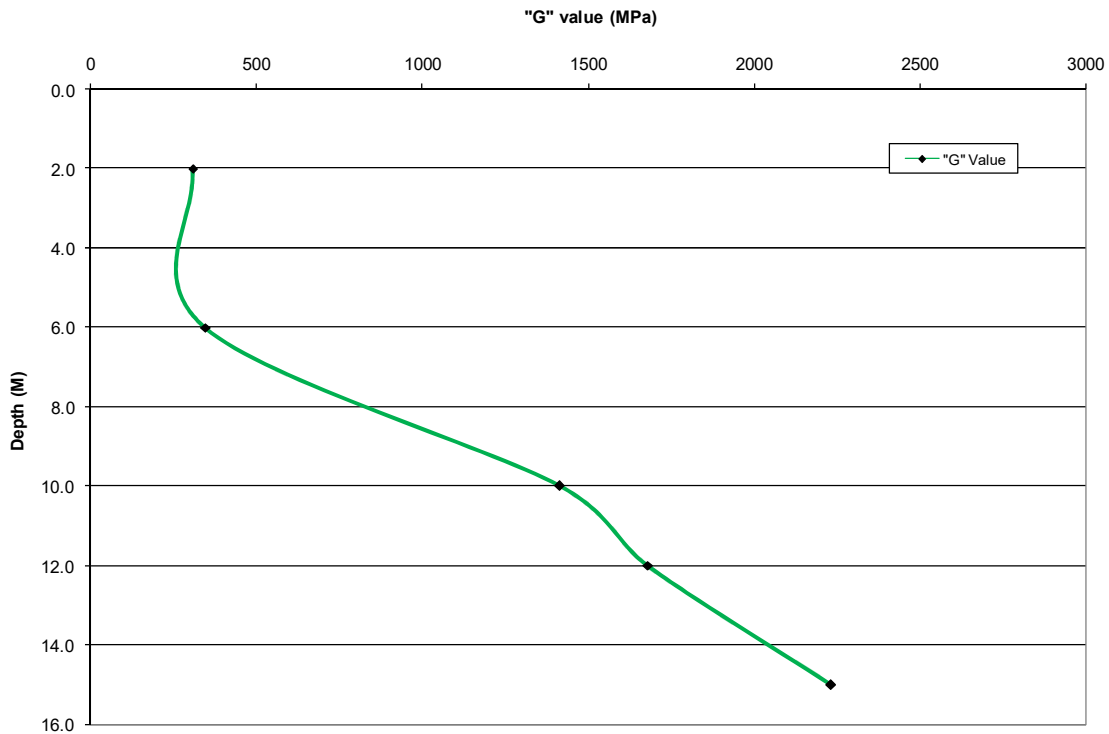
Depth (M) BGL	V _p (m/s)	V _s (m/s)	Mass Density (kN.s ² /m ⁴)	m = V _p /V _s	Poisson Ratio, σ	Young's Modulus (kN/m ²)	Young's Modulus (MPa)	Shear Modulus (kN/m ²)	Shear Modulus (MPa)
2.0	847	388	2.04	2.1830	0.367	839249	839.2	306919	306.9
6.0	875	412	2.04	2.1238	0.358	939609	939.6	346063	346.1
10.0	1312	745	2.55	1.7611	0.262	3570212	3570.2	1414437	1414.4
12.0	1410	812	2.55	1.7365	0.252	4207079	4207.1	1680285	1680.3
15.0	1602	936	2.55	1.7115	0.241	5540781	5540.8	2232661	2232.7



Variation of "P" & "S" wave Velocity with Depth



Variation of "E" with Depth



Variation of "G" with Depth