APPROVED, subject to the condition that the approval conveyed herein neither relieves the contractor of his contractual obligations and his responsibilities, design details, performance particulars and conformity of the supplies with the Indian Statutory laws / IEC specifications as may be applicable, nor does it limit the [illegible] contract.

EARTH RESISTIVITY TEST REPORT FOR Construction of a new 400/132kV Grid Sub-Station at Umrangsho along with Associated Transmission System at Dima Hasao district, Assam.



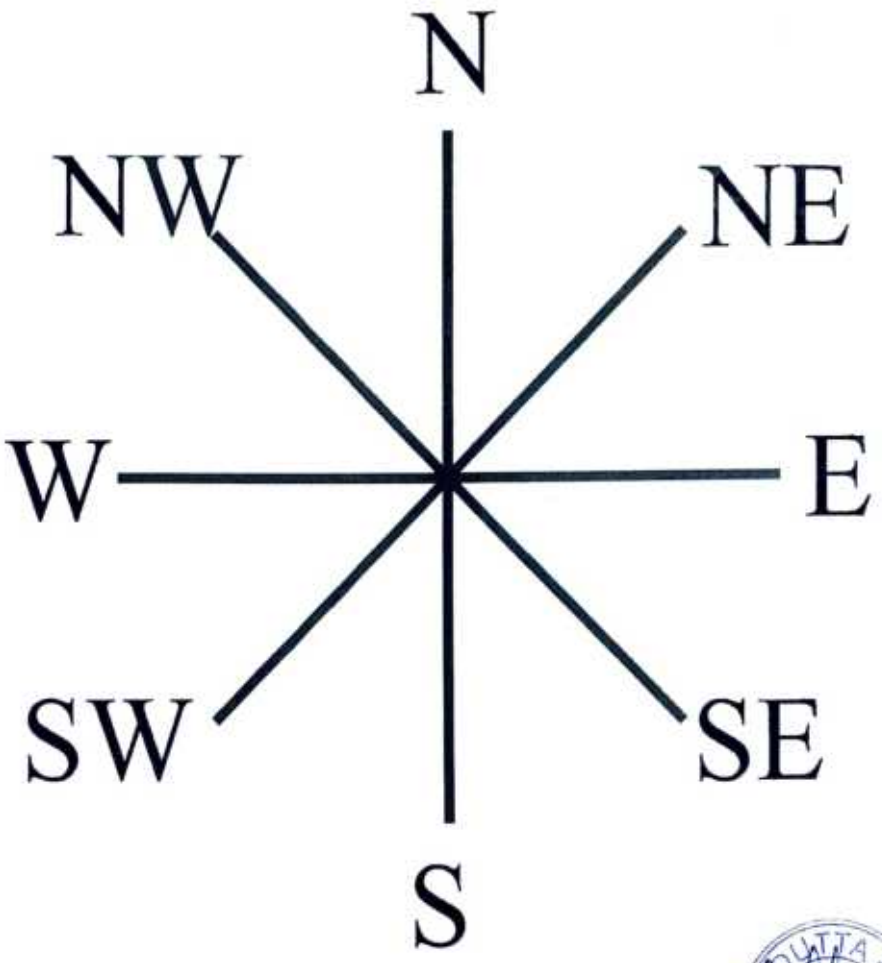
Client: - Assam Electricity Grid Corporation Limited

Submitted By:
P. K. DUTTA& CO.
NAIHATI, W.B

Checked By AM (P&D)	Checked By DM (P&D)	Checked By AGM (P&D)	Checked By DGM (P&D)	Approved By GM (P&D)

ERT REPORT FOR CONSTRUCTION OF A NEW 400/132 KV GRID SUB-STATION AT UMRANGSHO

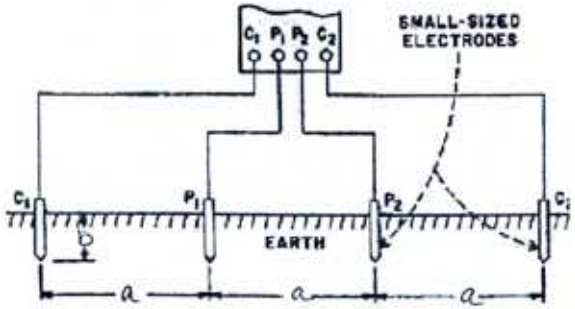
DIRECTION



Earth Resistivity value calculation method

$$\text{Resistivity Value } (\Omega/m) = \frac{4\pi aR}{\{1 + 2a/\sqrt{(a^2+4b^2)} + a/\sqrt{(a^2+b^2)}\}}$$

a = Electrode Space
b = Depth of Electrode
R = Resistance in (Ω)
Ω/m = Resistivity Value



ERT Report for Construction of a new 400/132kV Grid Sub-Station at Umrangsho along with Associated Transmission System at Dima Hasao district, Assam".

ER-1 (E= 92°46'8.5" , N= 25°31'29.2")

Soil Type : Umrangsho S/S Land, Tempareture: 27°C - 34°C

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)	Resistivity Value(Ω/m)	Land Type	Date	Time	Remarks
1	ER-1	N	2	0.2	1.09	13.93	Umrangsho grid Sub Station	07.10.2026	10:00AM - 10:30 AM	
		S	2	0.2	1.08	13.80				
		E	2	0.2	1.34	17.12				
		W	2	0.2	1.30	16.61				
		NE	2	0.2	0.99	12.65				
		SE	2	0.2	0.97	12.39				
		NW	2	0.2	1.06	13.54				
		SW	2	0.2	0.98	12.52				
2	ER-1	N	5	0.2	0.50	15.74		07.10.2026	10:40AM - 11:10 AM	
		S	5	0.2	0.45	14.17				
		E	5	0.2	0.41	12.91				
		W	5	0.2	0.36	11.34				
		NE	5	0.2	0.35	11.02				
		SE	5	0.2	0.42	13.22				
		NW	5	0.2	0.39	12.28				
		SW	5	0.2	0.37	11.65				
3	ER-1	N	10	0.2	0.29	18.22		07.10.2026	11:20AM - 11:50 AM	
		S	10	0.2	0.27	16.97				
		E	10	0.2	0.23	14.45				
		W	10	0.2	0.26	16.34				
		NE	10	0.2	0.19	11.94				
		SE	10	0.2	0.18	11.31				
		NW	10	0.2	0.21	13.2				
		SW	10	0.2	0.24	15.08				
4	ER-1	N	15	0.2	0.16	15.08		07.10.2026	12:00PM - 1:30 PM	
		S	15	0.2	0.15	14.13				
		E	15	0.2	0.18	16.96				
		W	15	0.2	0.16	15.08				
		NE	15	0.2	0.17	16.02				
		SE	15	0.2	0.13	12.25				
		NW	15	0.2	0.15	14.13				
		SW	15	0.2	0.16	15.08				
5	ER-1	N	25	0.2	0.09	14.13		07.10.2026	1:40PM - 1:10 PM	
		S	25	0.2	0.09	14.13				
		E	25	0.2	0.07	10.99				
		W	25	0.2	0.10	15.70				
		NE	25	0.2	0.11	17.27				
		SE	25	0.2	0.08	12.56				
		NW	25	0.2	0.09	14.13				
		SW	25	0.2	0.10	15.70				
6	ER-1	N	50	0.2	0.05	15.70		07.10.2026	1:20PM - 1:50 PM	
		S	50	0.2	0.06	18.84				
		E	50	0.2	-					
		W	50	0.2	-					
		NE	50	0.2	-					
		SE	50	0.2	-					
		NW	50	0.2	0.05	15.70				
		SW	50	0.2	0.07	21.98				
						14.58				



ERT Report for Construction of a new 400/132kV Grid Sub-Station at Umrangsho along with Associated Transmission System at Dima Hasao district, Assam".

ER-2 (E= 92°46'10.3" , N= 25°31'26.5")

Soil Type : Umrangsho S/S Land, Tempareture: 27°C - 34°C

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)	Resistivity Value(Ω/m)	Land Type	Date	Time	Remarks
1	ER-2	N	2	0.2	1.70	21.72	Umrangsho grid Sub Station	05.10.2026	9:00AM - 9:30 AM	
		S	2	0.2	1.63	20.83				
		E	2	0.2	1.49	19.04				
		W	2	0.2	1.53	19.55				
		NE	2	0.2	1.25	15.97				
		SE	2	0.2	1.34	17.12				
		NW	2	0.2	1.27	16.23				
		SW	2	0.2	1.46	18.65				
2	ER-2	N	5	0.2	0.39	12.28		05.10.2026	9:40AM - 10:10 AM	
		S	5	0.2	0.37	11.65				
		E	5	0.2	0.36	11.34				
		W	5	0.2	0.36	11.34				
		NE	5	0.2	0.33	10.39				
		SE	5	0.2	0.34	10.71				
		NW	5	0.2	0.36	11.34				
		SW	5	0.2	0.32	10.08				
3	ER-2	N	10	0.2	0.17	10.68		05.10.2026	10:20AM - 10:50 AM	
		S	10	0.2	0.21	13.20				
		E	10	0.2	0.19	11.94				
		W	10	0.2	0.19	11.94				
		NE	10	0.2	0.16	10.06				
		SE	10	0.2	0.13	8.17				
		NW	10	0.2	0.15	9.43				
		SW	10	0.2	0.18	11.31				
4	ER-2	N	15	0.2	0.12	11.31		05.10.2026	11:00AM - 11:30 AM	
		S	15	0.2	0.11	10.37				
		E	15	0.2	0.13	12.25				
		W	15	0.2	0.10	9.42				
		NE	15	0.2	0.11	10.37				
		SE	15	0.2	0.14	13.19				
		NW	15	0.2	0.10	9.42				
		SW	15	0.2	0.09	8.48				
5	ER-2	N	25	0.2	0.08	12.56		05.10.2026	11:40AM - 12:10 PM	
		S	25	0.2	0.07	10.99				
		E	25	0.2	0.07	10.99				
		W	25	0.2	0.06	9.42				
		NE	25	0.2	0.07	10.99				
		SE	25	0.2	0.08	12.56				
		NW	25	0.2	0.06	9.42				
		SW	25	0.2	0.05	7.85				
6	ER-2	N	50	0.2	0.03	9.42		05.10.2026	12:20PM - 12:50 PM	
		S	50	0.2	0.04	12.56				
		E	50	0.2						
		W	50	0.2						
		NE	50	0.2						
		SE	50	0.2						
		NW	50	0.2						
		SW	50	0.2						
						12.30				

DUTTA & CO. W.B. NAIHATI

ERT Report for Construction of a new 400/132kV Grid Sub-Station at Umrangsho along with Associated Transmission System at Dima Hasao district, Assam".

ER-3 (E= 92°46'9.3" , N= 25°31'26.0")

Soil Type : Umrangsho S/S Land, Tempareture: 27°C - 34°C

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)	Resistivity Value(Ω/m)	Land Type	Date	Time	Remarks
1	ER-3	N	2	0.2	1.29	16.48	Umrangsho grid Sub Station	05.10.2026	9:00AM - 9:30 AM	
		S	2	0.2	1.32	16.86				
		E	2	0.2	1.24	15.84				
		W	2	0.2	1.18	15.08				
		NE	2	0.2	1.41	18.01				
		SE	2	0.2	1.36	17.38				
		NW	2	0.2	1.30	16.61				
		SW	2	0.2	1.44	18.40				
2	ER-3	N	5	0.2	0.42	13.22		05.10.2026	9:40AM - 10:10 AM	
		S	5	0.2	0.39	12.28				
		E	5	0.2	0.46	14.48				
		W	5	0.2	0.43	13.54				
		NE	5	0.2	0.37	11.65				
		SE	5	0.2	0.39	12.28				
		NW	5	0.2	0.41	12.91				
		SW	5	0.2	0.44	13.85				
3	ER-3	N	10	0.2	0.29	18.22		05.10.2026	10:20AM - 10:50 AM	
		S	10	0.2	0.27	16.97				
		E	10	0.2	0.27	16.97				
		W	10	0.2	0.31	19.48				
		NE	10	0.2	0.26	16.34				
		SE	10	0.2	0.22	13.83				
		NW	10	0.2	0.19	11.94				
		SW	10	0.2	0.21	13.20				
4	ER-3	N	15	0.2	0.17	16.02		05.10.2026	11:00AM - 11:30 AM	
		S	15	0.2	0.19	17.90				
		E	15	0.2	0.14	13.19				
		W	15	0.2	0.16	15.08				
		NE	15	0.2	0.15	14.13				
		SE	15	0.2	0.18	16.96				
		NW	15	0.2	0.19	17.90				
		SW	15	0.2	0.13	12.25				
5	ER-3	N	25	0.2	0.11	17.27		05.10.2026	11:40AM - 12:10 PM	
		S	25	0.2	0.12	18.84				
		E	25	0.2	0.11	17.27				
		W	25	0.2	0.09	14.13				
		NE	25	0.2	0.10	15.70				
		SE	25	0.2	0.13	20.41				
		NW	25	0.2	0.11	17.27				
		SW	25	0.2	0.08	12.56				
6	ER-3	N	50	0.2	0.06	18.84		05.10.2026	12:20PM - 12:50 PM	
		S	50	0.2	-					
		E	50	0.2	-					
		W	50	0.2	0.05	15.70				
		NE	50	0.2	-					
		SE	50	0.2	-					
		NW	50	0.2	-					
		SW	50	0.2	-					
						15.65				

DATTA & CO. V.B NAIHATI

ERT Report for Construction of a new 400/132kV Grid Sub-Station at Umrangsho along with Associated Transmission System at Dima Hasao district, Assam".

ER-4 (E= 92°46'7.6" , N= 25°31'31.8")

Soil Type : Umrangsho S/S Land, Tempareture: 27°C - 34°C

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)	Resistivity Value(Ω/m)	Land Type	Date	Time	Remarks
1	ER-4	N	2	0.2	0.99	12.65	Umrangsho grid Sub Station	08.10.2026	1.00PM-1:30PM	
		S	2	0.2	0.93	11.88				
		E	2	0.2	1.10	14.05				
		W	2	0.2	0.97	12.39				
		NE	2	0.2	0.94	12.01				
		SE	2	0.2	0.98	12.52				
		NW	2	0.2	1.06	13.54				
		SW	2	0.2	1.09	13.93				
2	ER-4	N	5	0.2	0.37	11.65		08.10.2026	1:40PM-2:10PM	
		S	5	0.2	0.40	12.60				
		E	5	0.2	0.41	12.91				
		W	5	0.2	0.39	12.28				
		NE	5	0.2	0.43	13.54				
		SE	5	0.2	0.44	13.85				
		NW	5	0.2	0.47	14.80				
		SW	5	0.2	0.48	15.11				
3	ER-4	N	10	0.2	0.36	22.62		08.10.2026	2:20PM-2:50PM	
		S	10	0.2	0.36	22.62				
		E	10	0.2	0.33	20.74				
		W	10	0.2	0.34	21.37				
		NE	10	0.2	0.31	19.48				
		SE	10	0.2	0.33	20.74				
		NW	10	0.2	0.35	22.00				
		SW	10	0.2	0.29	18.22				
4	ER-4	N	15	0.2	0.20	18.85		08.10.2026	3:00PM-3:30PM	
		S	15	0.2	0.22	20.73				
		E	15	0.2	0.19	17.90				
		W	15	0.2	0.23	21.67				
		NE	15	0.2	0.20	18.85				
		SE	15	0.2	0.21	19.79				
		NW	15	0.2	0.21	19.79				
		SW	15	0.2	0.23	21.67				
5	ER-4	N	25	0.2	0.12	18.84		08.10.2026	3:40PM-4:10PM	
		S	25	0.2	0.12	18.84				
		E	25	0.2	0.14	21.98				
		W	25	0.2	0.11	17.27				
		NE	25	0.2	0.13	20.41				
		SE	25	0.2	0.10	15.70				
		NW	25	0.2	0.13	20.41				
		SW	25	0.2	0.12	18.84				
6	ER-4	N	50	0.2	-			08.10.2026	4:20PM-4:50PM	
		S	50	0.2	0.06	18.84				
		E	50	0.2	-					
		W	50	0.2	-					
		NE	50	0.2	-					
		SE	50	0.2	-					
		NW	50	0.2	0.06	18.84				
		SW	50	0.2	0.05	15.70				
						17.27				

K. DUTTA & CO. NAHARLAGUN

ERT Report for Construction of a new 400/132kV Grid Sub-Station at Umrangsho along with Associated Transmission System at Dima Hasao district, Assam".

ER-5 (E= 92°46'6.9" , N= 25°31'30.2")

Soil Type : Umrangsho S/S Land, Tempareture: 27°C - 34°C

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)	Resistivity Value(Ω/m)	Land Type	Date	Time	Remarks
1	ER-5	N	2	0.2	1.10	14.05	Umrangsho grid Sub Station	06.10.2026	1:00PM-1:30PM	
		S	2	0.2	1.09	13.93				
		E	2	0.2	0.98	12.52				
		W	2	0.2	0.99	12.65				
		NE	2	0.2	1.06	13.54				
		SE	2	0.2	0.97	12.39				
		NW	2	0.2	1.03	13.16				
		SW	2	0.2	0.99	12.65				
2	ER-5	N	5	0.2	0.47	14.80		06.10.2026	1:40PM-2:10PM	
		S	5	0.2	0.46	14.48				
		E	5	0.2	0.39	12.28				
		W	5	0.2	0.37	11.65				
		NE	5	0.2	0.37	11.65				
		SE	5	0.2	0.36	11.34				
		NW	5	0.2	0.36	11.34				
		SW	5	0.2	0.37	11.65				
3	ER-5	N	10	0.2	0.33	20.74		06.10.2026	2:20PM-2:50PM	
		S	10	0.2	0.29	18.22				
		E	10	0.2	0.30	18.85				
		W	10	0.2	0.27	16.97				
		NE	10	0.2	0.29	18.22				
		SE	10	0.2	0.28	17.60				
		NW	10	0.2	0.34	21.37				
		SW	10	0.2	0.32	20.11				
4	ER-5	N	15	0.2	0.24	22.62		06.10.2026	3:00PM-3:30PM	
		S	15	0.2	0.22	20.73				
		E	15	0.2	0.21	19.79				
		W	15	0.2	0.23	21.67				
		NE	15	0.2	0.26	24.50				
		SE	15	0.2	0.19	17.90				
		NW	15	0.2	0.21	19.79				
		SW	15	0.2	0.17	16.02				
5	ER-5	N	25	0.2	0.13	20.41		06.10.2026	3:40PM-4:10PM	
		S	25	0.2	0.11	17.27				
		E	25	0.2	0.10	15.70				
		W	25	0.2	0.14	21.98				
		NE	25	0.2	0.09	14.13				
		SE	25	0.2	0.13	20.41				
		NW	25	0.2	0.08	12.56				
		SW	25	0.2	0.10	15.70				
6	ER-5	N	50	0.2	0.06	18.84		06.10.2026	4:20PM-4:50PM	
		S	50	0.2	0.08	25.12				
		E	50	0.2	0.05	15.70				
		W	50	0.2	-					
		NE	50	0.2	0.04	12.56				
		SE	50	0.2	0.06	18.84				
		NW	50	0.2	-					
		SW	50	0.2	-					
						16.63				

DIMA HASAO W.B NAIHATI

Avarage Value of Umrangsho Sub Station			
1	Avarage Value of ER-01	14.50	(Ω/m)
2	Avarage Value of ER-02	12.30	(Ω/m)
3	Avarage Value of ER-03	15.65	(Ω/m)
4	Avarage Value of ER-04	17.27	(Ω/m)
5	Avarage Value of ER-05	16.63	(Ω/m)
Avarage Value of Umrangsho Sub Station		15.27	(Ω/m)

Checked By AM (P&D)	Checked By DM (P&D)	Checked by AGM (P&D)	Checked By DGM (P&D)	Approved By GM (P&D)

APPROVED, subject to the condition that the approval conveyed herein neither relieves the contractor of his contractual obligations and his responsibilities, design details performance particulars and conformity of the supplies with the Indian Statutory laws / IEC specifications as may be applicable nor does limit the AEGCL's right under the contract.

PATTA & CO. W.B NAIHATI

EARTH RESISTIVITY TEST

Project Name:- Prop. 400/132 KV Grid Sub-station at Umrangshe

CLIENT :- AEGCL

Contractor :- P.K.Dutta & co.

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)10	Land Type	Date	Time	Remarks
1	ER-1	N	2	0.2	1.09	Level S/S Area	07-10-26		
		S	2	0.2	1.08				
		E	2	0.2	1.34				
		W	2	0.2	1.30		-do-		
		NE	2	0.2	0.99				
		SE	2	0.2	0.97				
		NW	2	0.2	1.06		-do-		
		SW	2	0.2	0.98				
2	ER-1	N	5	0.2	0.50		07-10-26		
		S	5	0.2	0.45				
		E	5	0.2	0.41				
		W	5	0.2	0.36		-do-		
		NE	5	0.2	0.35				
		SE	5	0.2	0.42		-do-		
		NW	5	0.2	0.39				
		SW	5	0.2	0.37				
3	ER-1	N	10	0.2	0.29		07-10-26		
		S	10	0.2	0.27				
		E	10	0.2	0.23				
		W	10	0.2	0.26				
		NE	10	0.2	0.19		-do-		
		SE	10	0.2	0.18				
		NW	10	0.2	0.21				
		SW	10	0.2	0.24				
4	ER-1	N	15	0.2	0.16		07-10-26		
		S	15	0.2	0.15				
		E	15	0.2	0.18				
		W	15	0.2	0.16		-do-		
		NE	15	0.2	0.17				
		SE	15	0.2	0.13				
		NW	15	0.2	0.15		-do-		
		SW	15	0.2	0.16				
5	ER-1	N	25	0.2	0.09		07-10-26		
		S	25	0.2	0.09				
		E	25	0.2	0.07				
		W	25	0.2	0.10		-do-		
		NE	25	0.2	0.11				
		SE	25	0.2	0.08				
		NW	25	0.2	0.09		-do-		
		SW	25	0.2	0.10				
6	ER-1	N	50	0.2	0.05		07-10-26		
		S	50	0.2	0.06				
		E	50	0.2	-				out of Area
		W	50	0.2	-		-do-		-do-
		NE	50	0.2	-				-do-
		SE	50	0.2	-				-do-
		NW	50	0.2	0.05				
		SW	50	0.2	0.07		07-10-26		

(P.K. Dutta & Co.)

Resident Engineer
132/33 Kv Umrangso GSS
AEGCL Umrangso

EARTH RESISTIVITY TEST

Project Name:- Prop. 400/132 KV Grid Sub Station at Umrangso

CLIENT :- AEGCL

Contractor :- P.K.Dutta & co.

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)10	Land Type	Date	Time	Remarks
1	ER-2	N	2	0.2	1.70	Prop. 5/5 Level	05-10-26		
		S	2	0.2	1.63				
		E	2	0.2	1.49				
		W	2	0.2	1.53				
		NE	2	0.2	1.25		- do -		
		SE	2	0.2	1.34				
		NW	2	0.2	1.27		- do -		
		SW	2	0.2	1.46				
2	ER-2	N	5	0.2	0.39		05-10-26		
		S	5	0.2	0.37				
		E	5	0.2	0.36				
		W	5	0.2	0.36				
		NE	5	0.2	0.33		- do -		
		SE	5	0.2	0.34				
		NW	5	0.2	0.36				
		SW	5	0.2	0.32		05-10-26		
3	ER-2	N	10	0.2	0.17		05-10-26		
		S	10	0.2	0.21				
		E	10	0.2	0.19				
		W	10	0.2	0.19		- do -		
		NE	10	0.2	0.16				
		SE	10	0.2	0.13				
		NW	10	0.2	0.15				
		SW	10	0.2	0.18		05-10-26		
4	ER-2	N	15	0.2	0.12		05-10-26		
		S	15	0.2	0.11				
		E	15	0.2	0.13		- do -		
		W	15	0.2	0.10				
		NE	15	0.2	0.11				
		SE	15	0.2	0.14		- do -		
		NW	15	0.2	0.10				
		SW	15	0.2	0.09		05-10-26		
5	ER-2	N	25	0.2	0.08		05-10-26		
		S	25	0.2	0.07				
		E	25	0.2	0.07		- do -		
		W	25	0.2	0.06				
		NE	25	0.2	0.07		- do -		
		SE	25	0.2	0.08				
		NW	25	0.2	0.06				
		SW	25	0.2	0.05		05-10-26		
6	ER-2	N	50	0.2	0.03		05-10-26		
		S	50	0.2	0.04		- do -		
		E	50	0.2	—				out of Area
		W	50	0.2	—		- do -		
		NE	50	0.2					- do -
		SE	50	0.2	—		- do -		
		NW	50	0.2	—				
		SW	50	0.2	—		05-10-26		out of Area

Dep
(P.K. Dutta & Co.)

Resident Engineer
132/33 Kv Umrangso GSS
AEGCL Umrangso

EARTH RESISTIVITY TEST

Project Name:- Prep. 400/132Kv Grid Sub Station at Umrangso

CLIENT :- AEGCL

Contractor :- P.K.Dutta & co.

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)10	Land Type	Date	Time	Remarks
1	ER-9	N	2	0.2	1.29		05-10-26		
		S	2	0.2	1.32				
		E	2	0.2	1.24				
		W	2	0.2	1.18		- do -		
		NE	2	0.2	1.41				
		SE	2	0.2	1.36		- do -		
		NW	2	0.2	1.30				
		SW	2	0.2	1.44				
2	ER-3	N	5	0.2	0.42		05-10-26		
		S	5	0.2	0.39				
		E	5	0.2	0.46				
		W	5	0.2	0.43				
		NE	5	0.2	0.37				
		SE	5	0.2	0.39				
		NW	5	0.2	0.41				
		SW	5	0.2	0.44				
3	ER-3	N	10	0.2	0.29		05-10-26		
		S	10	0.2	0.27				
		E	10	0.2	0.27				
		W	10	0.2	0.31				
		NE	10	0.2	0.26		- do -		
		SE	10	0.2	0.22				
		NW	10	0.2	0.19				
		SW	10	0.2	0.21		- do -		
4	ER-3	N	15	0.2	0.17		05-10-26		
		S	15	0.2	0.19				
		E	15	0.2	0.14				
		W	15	0.2	0.16		- do -		
		NE	15	0.2	0.15				
		SE	15	0.2	0.18				
		NW	15	0.2	0.19		- do -		
		SW	15	0.2	0.13				
5	ER-3	N	25	0.2	0.11		05-10-26		
		S	25	0.2	0.12				
		E	25	0.2	0.11				
		W	25	0.2	0.09		- do -		
		NE	25	0.2	0.10				
		SE	25	0.2	0.13				
		NW	25	0.2	0.11		- do -		
		SW	25	0.2	0.08				
6	ER-3	N	50	0.2	0.06		05-10-26		
		S	50	0.2	=				Out of Area
		E	50	0.2					
		W	50	0.2	=		- do -		- do -
		NE	50	0.2	0.05				
		SE	50	0.2	=		- do -		Out of Area
		NW	50	0.2	=				
		SW	50	0.2	=		05-10-26		- do -

(P.K.Dutta & Co.)

Resident Engineer
132/33 Kv Umrangso GSS
AEGCL, Umrangso

EARTH RESISTIVITY TEST

Project Name:- Prop. 400/132 Kv Grid Sub-station at Umrangso.

CLIENT :- AEGCL

Contractor :- P.K.Dutta & co.

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)10	Land Type	Date	Time	Remarks
1	ER-4	N	2	0.2	0.99		08-10-26		
		S	2	0.2	0.93				
		E	2	0.2	1.10				
		W	2	0.2	0.97		- do -		
		NE	2	0.2	0.94				
		SE	2	0.2	0.98				
		NW	2	0.2	1.06		- do -		
		SW	2	0.2	1.09				
2	ER-4	N	5	0.2	0.37		08-10-26		
		S	5	0.2	0.40				
		E	5	0.2	0.41				
		W	5	0.2	0.39		- do -		
		NE	5	0.2	0.43				
		SE	5	0.2	0.44				
		NW	5	0.2	0.47		- do -		
		SW	5	0.2	0.48				
3	ER-4	N	10	0.2	0.36		08-10-26		
		S	10	0.2	0.36				
		E	10	0.2	0.33				
		W	10	0.2	0.34				
		NE	10	0.2	0.31		- do -		
		SE	10	0.2	0.33				
		NW	10	0.2	0.35		- do -		
		SW	10	0.2	0.29				
4	ER-4	N	15	0.2	0.20		08-10-26		
		S	15	0.2	0.22				
		E	15	0.2	0.19				
		W	15	0.2	0.23				
		NE	15	0.2	0.20		- do -		
		SE	15	0.2	0.21				
		NW	15	0.2	0.21				
		SW	15	0.2	0.23		- do -		
5	ER-4	N	25	0.2	0.12		08-10-26		
		S	25	0.2	0.12				
		E	25	0.2	0.14				
		W	25	0.2	0.11				
		NE	25	0.2	0.13				
		SE	25	0.2	0.10				
		NW	25	0.2	0.13				
		SW	25	0.2	0.12		08-10-26		
6	ER-4	N	50	0.2	—		08-10-26		
		S	50	0.2	0.06				
		E	50	0.2	—		- do -		
		W	50	0.2	—				
		NE	50	0.2	—		- do -		
		SE	50	0.2	—				
		NW	50	0.2	0.06				
		SW	50	0.2	0.05		08-10-26		

Dy
(P.K. Dutta & Co.)

Resident Engineer
132/33 Kv Umrangso GSS
AEGCL, Umrangso

EARTH RESISTIVITY TEST

Project Name:- Proposed 400/132KV Gohpur Sub Station at Umrangsho

CLIENT :- AEGCL

Contractor :- P.K.Dutta & Co.

Sl. No.	Location No.	Direction	Electrode Space (a)	Depth of Electrode(b)	Resistance (Ω)|10	Land Type	Date	Time	Remarks
1	ER-5	N	2	0.2	1.10	Proposed 5/5 Level.	06-10-26		
		S	2	0.2	1.09				
		E	2	0.2	0.98				
		W	2	0.2	0.99		-do-		
		NE	2	0.2	1.06				
		SE	2	0.2	0.97				
		NW	2	0.2	1.03		-do-		
		SW	2	0.2	0.99				
2	ER-5	N	5	0.2	0.47		06-10-26		
		S	5	0.2	0.46				
		E	5	0.2	0.39				
		W	5	0.2	0.37				
		NE	5	0.2	0.37		-do-		
		SE	5	0.2	0.36				
		NW	5	0.2	0.36		-do-		
		SW	5	0.2	0.37				
3	ER-5	N	10	0.2	0.33		06-10-26		
		S	10	0.2	0.29				
		E	10	0.2	0.30				
		W	10	0.2	0.27		-do-		
		NE	10	0.2	0.29				
		SE	10	0.2	0.28				
		NW	10	0.2	0.34		-do-		
		SW	10	0.2	0.32				
4	ER-5	N	15	0.2	0.24		06-10-26		
		S	15	0.2	0.22				
		E	15	0.2	0.21				
		W	15	0.2	0.23		-do-		
		NE	15	0.2	0.26				
		SE	15	0.2	0.19				
		NW	15	0.2	0.21		-do-		
		SW	15	0.2	0.17				
5	ER-5	N	25	0.2	0.13		06-10-26		
		S	25	0.2	0.11				
		E	25	0.2	0.10				
		W	25	0.2	0.14		-do-		
		NE	25	0.2	0.09				
		SE	25	0.2	0.13				
		NW	25	0.2	0.08		-do-		
		SW	25	0.2	0.10				
6	ER-5	N	50	0.2	0.06		06-10-26		
		S	50	0.2	0.08				
		E	50	0.2	0.05		-do-		
		W	50	0.2	—				out of Area.
		NE	50	0.2	0.04		-do-		
		SE	50	0.2	0.06				
		NW	50	0.2	—				out of Area.
		SW	50	0.2	—		06-10-26		-do-

For (P.K. Dutta & Co.)

Resident Engineer
132/33 Kv Umrangso GSS
AEGCL, Umrangso