

BANGLADESH RURAL ELECTRIFICATION BOARD

PBS INSTRUCTION 100-24

VOLTAGE AND CURRENT INVESTIGATIONS.

BANGLADESH RURAL ELECTRIFICATION BOARD
PBS INSTRUCTION 100-24

Approval Date: 07/03/1979
Revision Date : 19/02/2020

SUBJECT: VOLTAGE AND CURRENT INVESTIGATIONS

I. PURPOSE

To provide a guide for making investigations of voltage and current levels on rural distribution systems. This Instruction is intended to be used in conjunction with PBS Instruction 100-21 which provides detailed information on voltage levels for PBS systems.

II. NATURE OF INVESTIGATIONS

- (A) Voltage and current investigations will provide valuable information for the operation, improvement, and development of an electric system. They provide the basic data necessary for maintaining adequate voltage levels and current balance. They also provide much of the basic data from which plans for required system improvements are developed.
- (B) Investigations consist of taking the required measurements at specified locations on the system, tabulating the data on permanent record forms, and evaluating the results. Investigations should be thought of as a continuing activity rather than an activity performed every several years. Specific engineering guidance for the particular system is necessary to establish the plan for conducting the investigations. Such a plan includes selection of metering locations, instrumentation, development of record forms, procedure for taking measurements on a continuing basis, evaluating the results, and making specific recommendations. Competent system personnel should take the measurements and record the date.
- (C) Voltage investigations determine the variations of input voltage to substation regulators, the quality of substation regulators voltage control, the quality of line regulators voltage

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(Kamrul Ahsan Mollik)
Asst. Secy. (Board), BREB.

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(Md. Mozibur Rahman)
Consultant, TAPP, BREB

(Md. Uhidul Islam)
Consultant, TAPP, BREB

(Md. Mozammel Haq)
Consultant, TAPP, BREB

(Md. Abdul Khaleque)
Consultant, TAPP, BREB

(Md. Ahsanul Haque)
Consultant, TAPP, BREB

(Debasish Chakraborty)
PD, TAPP, BREB

control and the magnitude of line voltage drop. Readings taken from permanently installed thermal-type voltmeters will indicate where voltage recordings should be taken.

- (D) Current investigations determine the current balance of the substation and on multi-phase line determine the magnitude of current on major single-phase taps, and indicate necessary changes of sectionalizing equipment due to high load current. Readings taken from thermal-type ammeters permanently installed in the neutral leads of the substation transformers will indicate when circuits are unbalanced and additional current readings are required to aid in re-balancing the substation area.

III. METERING LOCATIONS

(A) A voltage investigation of a single-phase circuit requires simultaneous recordings at the substation regulator output, at the input to a line regulator, at the output of a line regulator and at the end of the circuit. An adequate potential source must be provided at the input to a line regulator and at the end of the circuit. It is recommended that consideration be given to the permanent installation of small distribution transformers at these locations. Also, it is recommended that consideration be given to the permanent installation of a thermal-type voltmeter at the most remote end of each circuit.

(B) Substation regulator input voltage is measured at the secondary of substation transformers. A temporary potential source is required.

(C) A complete current balance investigation of a three-phase circuit requires maximum ampere demand measurements on each phase at the substation, at major multi-phase and single-phase tap lines and at the end of the three-phase circuit.

(D) Current balance of the substation is normally measured in the neutral leads of the substation transformers or at the meter test switch provided for metering connections.

(E) The metering locations specified above should be considered the minimum number of

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(Md. Mozibur Rahman)
Consultant TAPP BRFB

(Md. Duhidul Islam)
Consultant TAPP BREB

(Md. Mozammel Haq)
Consultant TAPP BREB

(Md. Abdul Khaleque)
Consultant TAPP BRFB

Md. Ahsanul Haque
Consultant TAPP BREB

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(Kamrul Ahsan Mollah)
Asst. Secy. (Board), BREB.

(Debasish Chakraborty)
PD, TAPP, BREB

locations. Additional locations may be required for specific system conditions or special system designs. All locations should be considered permanent and should not be changed unless circuit alterations make it advisable to do so.

IV. RECORDS

(A) A single measurement of the voltage level or current demand on a system will prove of little value. Repeated measurements which have been adequately tabulated for future reference are needed. These voltage and current investigations must include an adequate system for maintaining a record of the investigation results.

(B) A file card record system is suggested as the basic record system to be used. A file card should be maintained for each voltage and current metering location on the system and for each single-phase circuit for which voltage drop is to be determined. The data to be tabulated on the cards are as follows:

(1) Voltage Record Cards

(a) For input voltage to substation regulators, record the following:

- (1) Metering location number
- (2) Phase identification
- (3) Date
- (4) Maximum voltage
- (5) Minimum voltage

(b) For output voltage of substation regulators, record the following:

- (1) Metering location number
- (2) Phase identification
- (3) Date
- (4) Voltage balance level of regulator

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(Md. Mozibur Rahman)
Consultant TAPP BREB

(Md. Durdul Islam)
Consultant TAPP BREB

(Md. Kamrul Haq)
Consultant TAPP BREB

(Md. Abdul Khaleque)
Consultant TAPP BREB

(Md. Ahsanul Haque)
Consultant TAPP BREB

৬২১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৭৭০০

(Kamrul Ahsan Mollik)
Asst. Secy. (Board), BREB.

(Debasish Chakraborty)
PD, TAPP, BREB.

- (5) Operating band width of regulator
 - (6) Line-drop compensator settings
 - (7) Maximum ampere demand
 - (8) Maximum voltage
 - (9) Minimum voltage
- (c) For output voltage of line regulators, record the same data as for output voltage of substation regulators.
- (e) For voltage at the end of a single-phase circuit, record the following:
- (1) Metering location number
 - (2) Phase identification
 - (3) Date
 - (4) Maximum voltage
 - (5) Minimum voltage
- (d) For input voltage of line regulator, record the same data as for the end of a single-phase circuit.

(2) Voltage Drop Record Cards: For voltage drop from output of substation to end of the circuit, from output of substation to input of a line regulator or from output of a line regulator to end of the circuit, record the followings-

- (1) The numbers of the metering locations
- (2) Phase identification
- (3) Date
- (4) Chart time at which voltage drop is measured
- (5) Substation voltage or line regulator voltage, whichever coincides with the voltage drop to be determined.

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(Md. Mozibur Rahman)
Consultant TAPP BREB

(Md. Duhidul Islam)
Consultant TAPP BREB

(Md. Mozammel Haq)
Consultant TAPP BREB

(Md. Abdu Khaleque)
Consultant TAPP BREB

(Md. Ahsanul Haq)
Consultant TAPP BREB

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(Kamrul Ahsan Moftik)
Asst. Secy. (Board), BREB.
(Debasish Chakraborty)
PD, TAPP, BREB.

(6) Line regulator input voltage or end of circuit voltage, whichever coincides with the voltage drop to be determined.

(7) Voltage drop

(8) Maximum ampere demand at source

(3) **Current Record Cards:** The following data are to be record for all current metering locations:

(1) Metering location number.

(2) Number of phases and phase identifications

(3) Date

(4) Maximum ampere demand for each phase

(C) A system other than a card system for tabulating the data may be preferred and may be used. However, it is important that all of the data listed in the above paragraph be tabulated.

(D) A map of the system may be employed as an aid in keeping an up-to-date summary of voltage levels and circuit balance. Far end detail would be recorded on the map rather than it is recorded on the file cards. If practical all metering locations should be shown on the map and numbered. Color coded pins could be used to represent conditions as revealed by recent voltage and current investigations.

V. APPLICATION OF INVESTIGATION RESULTS

(A) Plans for required system improvements during the following year are developed from an evaluation of present system conditions in relation to past system conditions and the recommendations in the engineering system study. Voltage and current investigations provide much of the data by which system conditions are evaluated.

(B) Maximum allowable voltage drop on a primary line not employing a line regulator is

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(Md. Mozibur Rahman)
Consultant TAPP BREB

(Md. Durridul Islam)
Consultant TAPP BREB

(Md. Mizanur Rauf)
Consultant TAPP BREB

(Md. Abdul Khaleque)
Consultant TAPP BREB

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(Debasish Chakraborty) (Kamrul Ahsan Mollah)
Asst. Secy. (Board), BREB.
PD, TAPP, BREB

(Md. Ahsanul Haque)
Consultant, TAPP, BREB

17.2 volts (referred to a 230-volt base). Any such line exceeding on 17.2 volt drop is inadequate and corrective action should be taken. The corrective action should be correlated with the system engineering study. Voltage drop measurements aid in preventing premature installations which may result in an unnecessary investment. BREB Form No. 100-24-01 should be filled up at least once in a month. Consultant will take the reading, PBS will provide lineman & tools for recording the reading.

(C) Current unbalance on multi-phase circuits causes additional voltage drop, greater line loss, and unbalanced voltage to three-phase loads. Such unbalance develops from a non-uniform load growth on single-phase circuits or from adding single-phase taps. Current investigations are made to determine circuit loading on the existing system. The corrective action required to re-balance circuits should be correlated with the engineering system study. BREB Form No. 100-24-02 should be filled up at least once in a month in the same manner as highlighted earlier.

(D) Repeated ampere demand measurements will determine the load growth trend which should be considered in evaluating the engineering system study recommendations before the system improvements are made. A knowledge of the load growth trend enables the operator to predict future voltage drop on a circuit. To estimate future voltage drop, the present voltage drop is multiplied by the ratio of expected future ampere demand to present ampere demand. BREB Form No. 100-24-03 to BREB Form No. 100-24-07 should be filled in for various study.

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(Md. Mozibur Rahman)
Consultant TAPP BREB

(Md. Duhidul Islam)
Consultant TAPP BREB

(Md. Mozammel Haq)
Consultant TAPP BREB

(Md. Abdul Khaleque)
Consultant TAPP BREB

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(Md. Ahsanul Haque)
Consultant TAPP BREB

(Debasish Chakraborty)
PD, TAPP, BREB

(Kamrul Ahsan Mollik)
Ass.

BANGLADESH RURAL ELECTRIFICATION BOARD

BREB Form No. 100-24-01 (Version-1)

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VOLTAGE RECORD CARD

PBS: Sub-station:

Date: Location (Pole No. at Load End Point:

Voltage Balance Level of VR: Operating Band Width of VR:

Line Drop Compensator Setting: Maximum Ampere Demand:

Maximum Voltage of S/S VR: Minimum Voltage of S/S VR:

Time in Hr.	Input Voltage to S/S VR			Output Voltage to S/S VR			Voltage Drop			Remarks
	R-N	Y-N	B-N	R-N	Y-N	B-N	R-N	Y-N	B-N	
01.00										
02.00										
03.00										
04.00										
05.00										
06.00										
07.00										
08.00										
09.00										
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(Md. Mozibur Rahman)
Consultant TAPP BREB

(Md. Duhidul Islam)
Consultant TAPP BREB

(Md. Mozammel Haque)
Consultant TAPP BREB

(Md. Abdul Khaleque)
Consultant TAPP BREB

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(Md. Ahsanul Haque)
Consultant TAPP BREB

(Debasish Chakraborty)
PD, TAPP BREB

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(Kamrul Ahsan-Mollik)
Asst. Secy. (Board), BREB.

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VOLTAGE RECORD CARD

PBS: Sub-station:

Date: Location (Pole No. at Load End Point:

Voltage Balance Level of VR: Operating Band Width of VR:

Line Drop Compensator Setting: Maximum Ampere Demand:

Maximum Voltage of S/S VR: Minimum Voltage of S/S VR:

Time in Hr.	Output Voltage to S/S Voltage Regulator			Input Voltage to Line VR at the end of the Circuit			Voltage Drop			Remarks/ Feeder No.
	R-N	Y-N	B-N	R-N	Y-N	B-N	R-N	Y-N	B-N	
01.00										
02.00										
03.00										
04.00										
05.00										
06.00										
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20.00										
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22.00										
23.00										
24.00										

Note: Feeder name/No. to be mentioned on Remarks Column.

(Md. Mozibur Rahman)
Consultant TAPP BREB

(Md. Duhidul Islam)
Consultant TAPP BREB

(Md. Mozammel Haq)
Consultant TAPP BREB

(Md. Abdul Khaleque)
Consultant TAPP BREB

(Kamrul Ahsan Mollik)
Asst. Secy. (Board), BREB.

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(Md. Ahsanul Haque)
Consultant TAPP BREB

(Debasish Chakraborty)
PD, TAPP, BREB

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BREB Form No. 100-24-02 (Version-1)

FEEDER CURRENT INVESTIGATION CARD

PBS: Sub-station: Date:

Time in Hr. Ampere	FEEDER-1				FEEDER...				FEEDER...				FEEDER.				Remarks
	R	Y	B	G	R	Y	B	G	R	Y	B	G	R	Y	B	G	
01.00																	
02.00																	
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(Md. Mozibur Rahman)
Consultant, TAPP, BREB

(Md. Duhridul Islam)
Consultant, TAPP, BREB

(Md. Moxammel Haq)
Consultant, TAPP, BREB

(Md. Abdul Khaleque)
Consultant, TAPP, BREB

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(Md. Ahsanul Haque)
Consultant, TAPP, BREB

(Debasish Chakraborty)
PD, TAPP, BREB

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(Kamrul Ahsan Mollik)
Consultant, TAPP, BREB

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BREB Form No. 100-24-03 (Version-1)

SUB-STATION LOAD DATA CARD

PBS: Sub-station: Date:

Time in Hr.	S/S Feeder	KW	HV-KW	KVA	KVAR	KWH	KVAR H-D	KVAR H-R	PF	Voltage Regulator Output Voltage		
										R-N	Y-N	B-N
01.00	S/S Feeder											
02.00	S/S Feeder											
03.00	S/S Feeder											
04.00	S/S Feeder											
05.00	S/S Feeder											
06.00	S/S Feeder											
07.00	S/S Feeder											
08.00	S/S Feeder											
09.00	S/S Feeder											
10.00	S/S Feeder											
11.00	S/S Feeder											
12.00	S/S Feeder											
13.00	S/S Feeder											
14.00	S/S Feeder											
15.00	S/S Feeder											
16.00	S/S Feeder											
17.00	S/S Feeder											
18.00	S/S Feeder											
19.00	S/S Feeder											
20.00	S/S Feeder											
21.00	S/S Feeder											
22.00	S/S Feeder											
23.00	S/S Feeder											
24.00	S/S Feeder											

(Md. Mozibur Rahman)
Consultant TAPP BREB

(Md. Duhidul Islam)
Consultant TAPP BREB

(Md. Mozammel Haq)
Consultant TAPP BREB

(Md. Abdul Khaleque)
Consultant TAPP BREB

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(Md. Ahsanul Haque)
Consultant TAPP BREB

(Debasish Chakraborty)
PD, TAPP BREB

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(Kamrul Ahsan Mollik)
 Asst. Secy. (Board), BREB.

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BREB Form No. 100-24-04 (Version-1)

SUB-STATION MONTHLY DATA

PBS: Date:

SL No.	Description of Items	Name of Sub-station					
		S/S-1	S/S-2	S/S-3	S/S-4	S/S-5	S/S-6
1	Capacity, MVA						
2	Connected Load, MVA						
3	Monthly MWH Purchased						
4	Monthly MWH Sold						
5	Monthly Loss	MWH					
		%					
6	Monthly Max ^m Demand	MW					
		Time					
		Date					
7	Max ^m Demand So Far	MW					
		Time					
		Date					
8	Monthly KVARH						
9	Monthly Average Demand, MW						
10	Monthly Load Factor						
11	Monthly Demand Factor						
12	Monthly Power Factor						
13	Length of 33 KV Source Line (Km)	BREB					
		BPDB					
		PGCB					

(Md. Mozibur Rahman)
Consultant, TAPP, BREB

(Md. Yunus Islam)
Consultant, TAPP, BREB

(Md. Mozammel Haq)
Consultant, TAPP, BREB

(Md. Abdul Khaleque)
Consultant, TAPP, BREB

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(Md. Ahsanul Haque)
Consultant, TAPP, BREB

(Debasish Chakraborty)
PD, TAPP, BREB

(Kamrul Ahsan Mollik)
Asst. Secy. (Board), BREB

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BREB Form No. 100-24-05 (Version-1)

MONTHLY LOAD DATA (Sub-station Wise)

PBS: Date:

Feeder No.	Description of Items	Name of Sub-station					
		S/S-1	S/S-2	S/S-3	S/S-4	S/S-5	S/S-6
1	Connected Load, MVA						
	Max ^m Demand, MW						
	Maxm Current per phase	R					
		Y					
B							
2	Connected Load, MVA						
	Max ^m Demand, MW						
	Maxm Current per phase	R					
		Y					
B							
3	Connected Load, MVA						
	Max ^m Demand, MW						
	Maxm Current per phase	R					
		Y					
B							
4	Connected Load, MVA						
	Max ^m Demand, MW						
	Maxm Current per phase	R					
		Y					
B							
5	Connected Load, MVA						
	Max ^m Demand, MW						
	Maxm Current per phase	R					
		Y					
B							
6	Connected Load, MVA						
	Max ^m Demand, MW						
	Maxm Current per phase	R					
		Y					
B							

(Md. Mozibur Rahman)
Consultant TAPP BREB

(Md. Duhdul Islam)
Consultant TAPP BREB

(Md. Mozammel Haq)
Consultant TAPP BREB

(Md. Abdul Khaleque)
Consultant TAPP BREB

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(Md. Ahsanul Haque)
Consultant TAPP BREB

(Debasish Chakraborty)
PD, TAPP, BREB

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(Kamrul Ahsan Mollik)
Secy. (Board), BREB.

BANGLADESH RURAL ELECTRIFICATION BOARD

BREB Form No. 100-24-06 (Version-1)

DISTRIBUTION TRANSFORMER (Feeder Wise)

PBS: Date:

1. Sub-station Name: Sub-station ID:

Feeder No.	No. of Transformer with KVA Rating											Total No.	Total KVA
	5	10	15	25	37.5	50	75	100	167	200			
1													
2													
3													
4													
5													
6													
Total													

2. Sub-station Name: Sub-station ID:

Feeder No.	No. of Transformer with KVA Rating											Total No.	Total KVA
	5	10	15	25	37.5	50	75	100	167	200			
1													
2													
3													
4													
5													
6													
Total													

3. Sub-station Name: Sub-station ID:

Feeder No.	No. of Transformer with KVA Rating											Total No.	Total KVA
	5	10	15	25	37.5	50	75	100	167	200			
1													
2													
3													
4													
5													
6													
Total													

4. Sub-station Name: Sub-station ID:

Feeder No.	No. of Transformer with KVA Rating											Total No.	Total KVA
	5	10	15	25	37.5	50	75	100	167	200			
1													
2													
3													
4													
5													
6													
Total													

(Md. Mozibur Rahman)
Consultant TAPP BREB

(Md. Duhidul Islam)
Consultant TAPP BREB

(Md. Mizammet Haq)
Consultant TAPP BREB

(Md. Abdul Khaleque)
Consultant TAPP BREB

BANGLADESH RURAL ELECTRIFICATION BOARD				
PBS Instruction 100-24: VOLTAGE AND CURRENT INVESTIGATIONS				
Date of Origin	Revised by	Approved by	Page No.	Revision No.
07/03/1979	BREB	BREB Board	Page 13 of 14	3
Revision Date : 31/08/1995, 14/11/1996 & 19/02/2020				

(Md. Ahsanul Haque)
Consultant TAPP BREB

(Debasish Chakraborty)
PO, TAPP BREB

৬২১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৭৭০০

(Kamrul Ahsan Mollah)
Asst. Secy. (Board), BREB

BANGLADESH RURAL ELECTRIFICATION BOARD

BREB Form No. 100-24-07 (Version-1)

POWER TRANSFORMER CURRENT & TEMPERATURE INVESTIGATION CARD

PBS: Sub-station: Date:
Transformer ID No.: Transformer Serial No. : Capacity: MVA

Time in Hr. Temperature	Current Recorded (Ampere)				Temperature Recorded (^o C/F)		
	R Phase	Y Phase	B Phase	Ground	X-former Oil	X-former Winding	Ambient
1	2	3	4	5	6	7	8
01.00							
02.00							
03.00							
04.00							
05.00							
06.00							
07.00							
08.00							
09.00							
10.00							
11.00							
12.00							
13.00							
14.00							
15.00							
16.00							
17.00							
18.00							
19.00							
20.00							
21.00							
22.00							
23.00							
24.00							


(Md. Mozibur Rahman)
Consultant TAPP BREB



(Md. Duhidul Islam)
Consultant TAPP BREB


(Md. Mozammel Haque)
Consultant TAPP BREB


(Md. Abdul Khaleque)
Consultant TAPP BREB

BANGLADESH RURAL ELECTRIFICATION BOARD				
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(Md. Ansanur Raque)
Consultant TAPP BREB


(Debasish Chakraborty)
PD, TAPP, BREB

৬২১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৭৭০০

(Kamrul Ahsan Mofit)
Asst. Secy. (Board), BREB.