



Bangalore Electricity Supply Company Ltd.

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HT Rating Report

12018

No. EE MT / AEE(O) / BRAZ / AEE HTR /

To,
The Asst. Executive Engineer (Ele.),
O&M Sub-Division
BESCOM, *Pirani*

Office of the
Executive Engineer (Ele.),
MT Division, BRAZ, BESCOM
3rd Floor, Crescent Tower
Bangalore - 560 001.

Date: *05/08/25*

Sir,

Subject : Rating Report of HT / EHT Installation

The H.T. Installation having the following details has been rated for periodical rating / complaint on *05/08/25*.
You are requested to take action on the observations and advices recorded in the report. Compliance report shall be sent to this office on the observations pointed out in the report. Details are furnished in the Annexure enclosed.

1. DETAILS OF H.T. INSTALLATION :

Previously rated on *03/02/2025*

R.R. No. *AKLHT-750* CD *1500-500* ≈ 1000 KVA. Meter Constant *8000 to 5000* Activity *HT (a)*
Name & Address of the Consumer *649.94 kW*

2. OBSERVATION & ADVICE ON TECHNICAL MATTER :

The installation both main & check meters are calibrated. On account of reduction of load, the error recorded found to be within

3. ADVICE ON REVENUE MATTER : Permissible limits.

*NEW CD = 1000 / 649.94 kW
M C = 5000*

4. DOWNLOADED TATA ANALYSIS ENCLOSED : YES / NO.

Summary of analysis if rated against complaint.

Yours faithfully,

Hemalatha
Asst. Executive Engineer (Ele.),
HT Rating Sub Division, *R/S*
BRAZ, BESCOM, Bangalore.

Copy for kind information to :

1. The Executive Engineer Ele., MT Division, BRAZ, Bangalore.

2. Executive Engineer Ele, O&M *Chandapura* Division, BESCOM, *Chandapura*

In case of discrepancies :

- Chief Engineer Ele., BRAZ, B'lore.
- Superintendent of Police, Vigilance
- Accounts Officer, Internal Audit.

1. DETAILS OF SEALS :

AKLHT-750

12018

R.R. No.

Sl. No.	Seals Provided to	Sl. No. of Seals Found		Sl. No. of Seals Left	
		M Lead	Plastic	M Lead	Plastic
1.	M.C. of Meter	BMH54896/ C1060307	BMH54897/ A1418304	Retained	
2.	TC of Meter	BRA2A 53319	BRA2A 62782		
3.	M.D. Reset Knob	BRA2A 62719	BRA2A 62783	BRM1423433	BRM1423435
4.	Optical Port				
5.	T.T.B.	BRA2B33460	BRA2B 33461	BRM1423434	BRM1423436
6.	Meter Chamber Main Door	BRA2B33462		BRM1423437	
7.	Meter Reading Window				
8.	C.T. / P.T. Chamber	BRA2A62786		BRM1423438	
9.	Cable Entry Chamber	BRA2A62787		BRM1423439	
10.					
11.					

2. DETAILS OF THE EQUIPMENTS :

- a) Cubicle Type : Cable Entry / 6 bushing / 3 bushing / LBS. Make..... AS Existing Sl. No.
- b) Cubicle Conditions & Location..... Good
- c) Supply side G.O.S. : In Service / Direct / Removed
- d) Lightning Arrestor - Provided / Not Provided

3. DETAILS OF CTs / PTs :

	Existing	After Replacement	Existing	After Replacement
1. Make	Passo	Kalpa	Passo	Kalpa
2. Type	WP	WP	Earthed	
3. Class	0.2	0.25	0.2	
4. Insulation Level	17.5/38/95	15/38/95	17.5/38/95	
5. Burden	2.5	2.5	25	
6. Ratio Available	80/1A	50/1A	11kV/13/110V/1/5	
7. Ratio Connected	80/1A	50/1A	—	
8. Sl. No. 1.	P/CT-001394	10791	46035 (kalpa)	
2.	P/CT-001395	10794	P/PT-001337	
3.	P/CT-001396	10795	P/PT-001338	

4. DETAILS OF METERS :

ETV Meter

	Existing	Check After Replacement
a. Make	MAH	
b. Type	LRT	LRT
c. Class	WP300BB/BE DLMS-2	
d. Voltage	0.25	
e. Ampere	3X63.5	— Same
f. Pulse / Unit	1A	
g. Dial Constant	50000	
h. Sl. No.	22011224	22011089

MULTIPLYING CONSTANT FOR BILLING (Kwh. Kvah. Kva) :

$$\frac{\text{PT Ratio} \times \text{CT Ratio} \times \text{Dial Constant}}{\text{Meter PT Ratio} \times \text{Meter CT Ratio}} = \frac{50/1 \times \frac{11kV}{\sqrt{3}}}{110V/\sqrt{3}} = 5000 \quad 12018$$

6. A. CALIBRATION DETAILS :

	main CALIBRATOR	check METER
a. Voltage V ₁ , V ₂ , V ₃	61.84, 62.17, 62.09	61.82, 62.18, 62.02
b. Current I ₁ , I ₂ , I ₃	0.059, 0.057, 0.056	0.047, 0.050, 0.050
c. P.F. / KW	0.998 / 0.0105	0.998 / 0.0090
d. Sequence	Rev	Rev

B. CALIBRATION DATA :

	KVAH /	KVARH
a. Reading of Test Meter		
b. Reading of Reference Meter	1 and 1	sandy
c. Percent Error	0.113%	0.118%

C. VOLTAGE MEASURED at a) RY YB BR
b) RG YG BG

7. METER READINGS :

A. Cumulative Parameter

	Existing	After Replacement
a. Time, Date, Month, Year	5/8/25 @ 14:35	5/8/25 @ 14:39
b. Demand with elapsed time	C1 16.871	
c. Self diagnostic condition	C2 49.858 ckt good	ckt good
d. Present KVA, PF	C3 65.821 0.0095	0.0090
e. Cumulative KWH	C4 87.763 220.315 / 80.784	220.355 / 80.814

B. BILLING PARAMETERS :

a. Billing KWH	B1 16.738	219.087 / 80.548	219.127 / 80.578
b. Billing KVA	B2 49.479	0.0270 / 0.0398	0.0271 / 0.0385
c. Billing PF (Universal TOD)	B3 65.566	1.00 / 0.990	1.00 / 0.990
d. MD Reset Count	B4 87.303	37	37
e. MD Reset Manual / Automatic on		Auto	Auto

8. CONSUMER EQUIPMENT DETAILS

a. Transformer Make.....	b. Voltage Class
c. Capacity AS Existing	d. Current AS Existing
e. Vector Group	f. Sl. No.
g. D.G. Set Capacity.....	

Consumer's / Representatives Signature
with Seal

Humalalla
Asst. Executive Engineer (Ele.),
HT Rating Sub Division, *RS*
BRAZ, BESCOM, Bangalore.



Bangalore Electricity Supply Company Ltd.

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HT Rating Report **2872**

No. EE MT / AEE(O) / BRAZ / AEE HTR /

To,
The Asst. Executive Engineer (Ele.),
Tigani O&M Sub-Division
BESCOM, Tigani

Sir,

Subject : Rating Report of HT / EHT Installation

Office of the
Executive Engineer (Ele.),
MT Division, BRAZ, BESCOM
3rd Floor, Crescent Tower
Bangalore - 560 001.

Date 29/8/25

The H.T. Installation having the following details has been rated for periodical rating / complaint on 29/8/25.
You are requested to take action on the observations and advices recorded in the report. Compliance report shall be sent to this office on the observations pointed out in the report. Details are furnished in the Annexure enclosed.

1. DETAILS OF H.T. INSTALLATION : CTR 125/1 by 75/1A Previously rated on 16/5/25

R.R. No. TGN HT 985 CD 2550-1300 KVA. Meter Constant 12500 to 7500 Activity Medicine
= 1250

Name & Address of the Consumer.....



2. OBSERVATION & ADVICE ON TECHNICAL MATTER

The installation both main & check meter are calibrated before & after replacement of CT's on account of reduction of load

3. ADVICE ON REVENUE MATTER : as per the Ltr AEE/TGN/AET/2047 dt 5/8/25

new CD = 1250 kVA

new MC = 7500

4. DOWNLOADED TATA ANALYSIS ENCLOSED : YES / NO.

Summary of analysis if rated against complaint.....

Yours faithfully,

Hemalata S
Asst. Executive Engineer (Ele.),

HT Rating Sub Division, R/S
BRAZ, BESCOM, Bangalore.

Copy for kind information to :

- The Executive Engineer Ele., MT Division, BRAZ, Bangalore.
- Executive Engineer Ele, O&M Chandapura Division, BESCOM, Chandapura

In case of discrepancies :

- Chief Engineer Ele., BRAZ, B'lore.
- Superintendent of Police, Vigilance
- Accounts Officer, Internal Audit.

OF SEALS :

R.R. No. JG/NHF/985

Sl. No.	Seals Provided to	Sl. No. of Seals Found		Sl. No. of Seals Left	
		Lead	Plastic	Lead	Plastic
1.	M.C. of Meter	BMF76876/	BMF76877/	Retained	
2.	TC of Meter	2 x 43531	2 x 43543		
3.	M.D. Reset Knob	BR2800262	BR2800265		
4.	Optical Port	BR2800263	BR2800266	BRM1423653	BRM1423655
5.	T.T.B.	BR28			
6.	Meter Chamber Main Door	BR2834520	BR2834521	BRM1423654	BRM1423656
7.	Meter Reading Window	BR2834522		BRM1423657	
8.	C.T. / P.T. Chamber				
9.	Cable Entry Chamber	BR2800269		BRM1423658	
10.		BR2800270		BRM1423659	
11.					

2. DETAILS OF THE EQUIPMENTS :

- a) Cubicle Type : Cable Entry / 6 bushing / 3 bushing / LBS. Make AS Existing
 b) Cubicle Conditions & Location Good
 c) Supply side G.O.S. : In Service / Direct / Removed
 d) Lightning Arrestor - Provided / Not Provided

3. DETAILS OF CTs / PTs :

	Existing	After Replacement	Existing	After Replacement
1. Make	Vyoma	Kalpa	Vyoma	
2. Type	WP	WP	Earthed	
3. Class	0.2	0.25	0.2	
4. Insulation Level	17.5/38/95	15/38/95	17.5/38/95	
5. Burden	2.5	2.5	2.5	
6. Ratio Available	125/1A	75/1A	11KV/5/110/5	
7. Ratio Connected	125/1A	75/1A	—	
8. Sl. No. 1.	V4C-P-13	11959	V4P-M-7458	
2.	V4C-P-14	11960	V4P-M-7459	
3.	V4C-P-15	11961	V4P-M-7460	

4. DETAILS OF METERS :

ETV Meter

	Existing	After Replacement
a. Make	main mtr	check mtr
b. Type	LAT	LAT
c. Class	WR300BB/1K4R	
d. Voltage	0.25	
e. Ampere	3 x 63.5	
f. Pulse / Unit	1 A	
g. Dial Constant	50000	
h. Sl. No.	22007970	22008027

MULTIPLYING CONSTANT FOR BILLING (Kwh, Kvah, Kva) :
 $\frac{\text{PT Ratio} \times \text{CT Ratio} \times \text{Dial Constant}}{\text{Meter PT Ratio} \times \text{Meter CT Ratio}} = 12500$

2872

6. A. CALIBRATION DETAILS :

a. Voltage V₁, V₂, V₃

main mtr
CALIBRATOR
61-61, 61-62 61-29

check
METER
61-71, 61-75 61-42

b. Current I₁, I₂, I₃

0-205 0-203 0-211

0-217 0-205 0-221

c. P.F. / KW

0-993 / 0-0367

0-994 / 0-0399

d. Sequence

F09

F09

B. CALIBRATION DATA :

KVAH /

KVARH

a. Reading of Test Meter

-MTE-

-MTE-

b. Reading of Reference Meter

c. Percent Error

0.093%

0.081%

C. VOLTAGE MEASURED at a) RY YB BR

b) RG YG BG

7. METER READINGS :

A. Cumulative Parameter

a. Time, Date, Month, Year

Existing-
29/8/25 @ 15:02

After Replacement
29/8/25 @ 15:02

b. Demand with elapsed time

c. Self diagnostic condition

OK good

OK good

d. Present KVA, PF

0.0368 / 0.993

0.0404 / 0.994

e. Cumulative KWH

134.651

134.667

B. BILLING PARAMETERS :

a. Billing KWH

127.870

127.867

b. Billing KVA

0.0395

0.0392

c. Billing PF (Universal TOD)

0.982

0.982

d. MD Reset Count

38

38

e. MD Reset Manual / Automatic on

Auto

Auto

8. CONSUMER EQUIPMENT DETAILS

a. Transformer Make

mpf 0.982

0.982

c. Capacity

rmf 0.0459

0.0460

e. Vector Group

g. D.G. Set Capacity

b. Voltage Class

d. Current

f. Sl. No.

Consumer's / Representatives Signature
with Seal



Hemalatha

Asst. Executive Engineer (Ele.),

HT Rating Sub Division, KLS

BRAZ, BESCOM, Bangalore.

JG NHT-985

MULTIPLYING CONSTANT FOR BILLING (Kwh. Kvah. Kva) :

PT Ratio x CT Ratio x Dial Constant

Meter PT Ratio x Meter CT Ratio

$$= 75 / 1 \times \frac{11kV}{\sqrt{3}} / 110V / \sqrt{3} = 7500$$

2873

6. A. CALIBRATION DETAILS :

main mtr
CALIBRATORcheck
METERa. Voltage V₁, V₂, V₃

62.90, 63.01, 62.62

62.86 62.92 62.56

b. Current I₁, I₂, I₃

0.226 0.215 0.204

0.192 0.179 0.176

c. P.F. / KW

0.0386

0.0322

d. Sequence

F01

F01

B. CALIBRATION DATA :

KVAH /

KVARH

a. Reading of Test Meter

- MTE -

- MTE -

b. Reading of Reference Meter

c. Percent Error

0.091%

0.083%

C. VOLTAGE MEASURED at a) RY

YB

BR

b) RG

YG

BG

7. METER READINGS :

A. Cumulative Parameter

Existing

After Replacement

a. Time, Date, Month, Year

29/8/25 @ 16:31

29/8/25 @ 16:33

b. Demand with elapsed time

c. Self diagnostic condition

C1 6.871

ckt good

ckt good

d. Present KVA, PF

C2 94.553

0.037A / 0.991

0.0328 / 0.992

e. Cumulative KWH

C3 15.770

134.651

134.647

C4 17.456

B. BILLING PARAMETERS :

a. Billing KWH

134.651

134.647

b. Billing KVA

0.0459

0.0460

c. Billing PF (Universal TOD)

0.982

0.982

d. MD Reset Count

39

39

e. MD Reset Manual / Automatic on

manual

manual.

8PF 1.000

1.000

8md 0.0000

0.0000

8. CONSUMER EQUIPMENT DETAILS

a. Transformer Make

B1 6.871

b. Voltage Class

c. Capacity

B2 94.553

d. Current

e. Vector Group

B3 15.770

f. SI. No.

g. D.G. Set Capacity

B4 17.456

Consumer

Representatives Signature
with SealHimalayas
Asst. Executive Engineer (Ele.),

HT Rating Sub Division,

BRAZ, BESCOM, Bangalore.