

HT Rating Report

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

To,

The Asst. Executive Engineer (Ele.),

..... Allihale O&M Sub-Division

BESCOM, Allihale

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: 6/5/25

AKLHT-152

Add load

Ex1 + Add Load = Total

184 + 316 = 500 kVA

10/1 by 25/1A

The H.T. Installation having the following details has been rated for periodical rating / complaint on 6/5/25
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 :

R.R. No. AKLHT-152 CD 184+316 = 500 KVA /

Previously rated on 16.01.2025

Name & Address of the Consumer.....

Meter Constant 2000 to 2500 Activity HT2 (6)



2. OBSERVATION & ADVICE ON TECHNICAL MATTER :

The installation with main switch meter was calibrated on account of add load. The error recorded found to be within permissible limits. Pre-commission test for add load is conducted as per

3. ADVICE ON REVENUE MATTER :

The Ltr from AEE(A&B) / AEE(1) / 372 dt 2/5/25

New LD = 500 kVA / 115 kW

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, Rural South
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-158

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R.R. No.

Sl. No.	Seals Provided to	Sl. No. of Seals Found		Sl. No. of Seals Left	
		Lead	Plastic	Lead	Plastic
1.	M.C. of Meter	BPA2 57020 A4 71720	BPA2 57019 X073235	} retained	
2.	TC of Meter	BPA2 64750	BPA2 68083		
3.	M.D. Reset Knob	BPA2 68081	BPA2 68084	BPA2R 34462	BPA2R 34464
4.	Optical Port				BT
5.	T.T.B.	BPA2R 87681	BPA2R 68682	BPA2R 34463	BPA2R 34465
6.	Meter Chamber Main Door	BPA2R 87683		BPA2R 34466	
7.	Meter Reading Window				
8.	C.T. / P.T. Chamber	BPA2 68087		BPA2R 34467	
9.	Cable Entry Chamber	BPA2 68088		BPA2R 34468	
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	<i>Venkat</i>	<i>Kalpa</i>	<i>Venkat</i>	
2. Type				
3. Class	<i>0.25</i>	<i>0.25</i>	<i>0.2</i>	
4. Insulation Level	<i>17.5/38/95</i>	<i>15/38/95</i>	<i>17.5/38/95</i>	
5. Burden	<i>2.5</i>	<i>2.5</i>	<i>2.5</i>	
6. Ratio Available	<i>10/1.1A</i>	<i>25/1.1A</i>	<i>11.4/1.1A/11.4V/1.1A</i>	
7. Ratio Connected	<i>10/1.1A</i>	<i>25/1.1A</i>	<i>4</i>	
8. Sl. No. 1.	<i>6854</i>	<i>309551</i>	<i>5150</i>	
2.	<i>6853</i>	<i>309552/2A</i>	<i>5149</i>	
3.	<i>6852</i>	<i>309553</i>	<i>5148</i>	

4. DETAILS OF METERS :

ETV Meter

	Existing	After Replacement
a. Make	<i>main mtr</i>	<i>check mtr</i>
b. Type	<i>HR3000R11RE.DLMS-2</i>	<i>HR3000R11RE.DLMS-2</i>
c. Class	<i>0.25</i>	<i>0.25</i>
d. Voltage	<i>3x63.5</i>	<i>3x63.5</i>
e. Ampere	<i>1A</i>	<i>1A</i>
f. Pulse / Unit	<i>50000</i>	<i>50000</i>
g. Dial Constant	<i>1</i>	<i>1</i>
h. Sl. No.	<i>21008370</i>	<i>21009702</i>

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

$$\frac{\text{PT Ratio} \times \text{CT Ratio} \times \text{Dial Constant}}{\text{Meter PT Ratio} \times \text{Meter CT Ratio}} =$$

6. **A. CALIBRATION DETAILS :**

- Voltage V₁, V₂, V₃
- Current I₁, I₂, I₃
- P.F. / KW
- Sequence

2500

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CALIBRATOR

METER

B. CALIBRATION DATA :

- Reading of Test Meter
- Reading of Reference Meter
- Percent Error

C. VOLTAGE MEASURED at a) RY

b) RG

YB

YG

BR 113%

BG

7. **METER READINGS :**

A. Cumulative Parameter

- Time, Date, Month, Year
- Demand with elapsed time
- Self diagnostic condition
- Present KVA, PF
- Cumulative KWH

Existing

After Replacement

B. BILLING PARAMETERS :

- Billing KWH
- Billing KVA
- Billing PF (Universal TOD)
- MD Reset Count
- MD Reset Manual / Automatic on

8. **CONSUMER EQUIPMENT DETAILS**

- Transformer Make
- Capacity
- Vector Group
- D.G. Set Capacity

- Voltage Class
- Current
- Sl. No.



Consumer's Representatives Signature
with Seal

Asst. Executive Engineer (Ele.),

HT Rating Sub Division,

BRAZ, BESCOM, Bangalore South



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

$$\frac{\text{PT Ratio} \times \text{CT Ratio} \times \text{Dial Constant}}{\text{Meter PT Ratio} \times \text{Meter CT Ratio}} = 2500$$

After replacement of CT's

6. A. CALIBRATION DETAILS :

- Voltage V₁, V₂, V₃
- Current I₁, I₂, I₃
- P.F. / KW
- Sequence

main mtr
CALIBRATOR

check
METER

62.47, 62.80, 62.86
0.122, 0.128, 0.129
0.619, 0.615
F00

62.07, 62.73, 62.79
0.020, 0.077, 0.061
0.213, 0.078
F00

B. CALIBRATION DATA :

- Reading of Test Meter
- Reading of Reference Meter
- Percent Error

KVAH /

KVARH

same
0.109%

same
0.112%

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

7. METER READINGS :

A. Cumulative Parameter

- Time, Date, Month, Year
- Demand with elapsed time
- Self diagnostic condition
- Present KVA, PF

Existing

After Replacement

01/05/2015:34
OKT good
0.0220/0.619
1232.043/64.834

01/05/2015:39
OKT good
0.0152/0.213
1231.879/64.834

B. BILLING PARAMETERS :

- Billing KWH
- Billing KVA
- Billing PF (Universal TOD)
- MD Reset Count
- MD Reset Manual / Automatic on

1232.043/64.834
0.0945/0.0821
0.960/0.996
47
Manual

1231.874/64.834
0.0948/0.0822
0.960/0.998
47
Manual

CONSUMER EQUIPMENT DETAILS

- Transformer Make..... TOD B11 230.447
- Capacity B21 316.126
- Vector Group B31 275.877
- D.G. Set Capacity..... B41 409.597

- Voltage Class TOD B11 230.434
- Current B21 316.028
- Sl. No. B31 275.835
B41 409.581



Representatives Signature
with Seal

Asst. Executive Engineer (Ele.),

HT Rating Sub Division, Rural South
BRAZ, BESCOM, Bangalore.



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