



BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned Government of Karnataka Undertaking)

No. EEMT/AEE(O)/BRAZ/AEE HTR/106

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

Office of the
Executive Engineer (Ele),
MT Division, BRAZ, BESCOM,
3rd Floor, Crescent towers,
Bangalore-560001.

Sir,

NEW MC = 2500

Addn Load
Exi: - 350 kVA
Addn: - 147 kVA

Total = 497 kVA

Date 28/04/25

Subject: Rating Report of HT/EHT Installation.

The H.T. Installation having the following details has been rated for periodical rating/complaint on..... You are requested to take action on the observations and advice 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. 82 CD 147 kVA CTR 20/1A Previously rated on 10/01/25
Activity Tariff 147 kVA A Meter Constant OLD = 2000
Name & Address of the Consumer NEW = 25/1A NEW MC = 2500

2. OBSERVATION & ADVICE ON TECHNICAL MATTER:

As per the request of AEE Bidadi Ltr No. 113 dt. 13/04/25 & oral instruction of E.E. MT, B.E. recommended de-commission and pre commission test on additional load from 350 kVA to 497 kVA By changing

3. ADVICE ON REVENUE MATTER:

Ct's of 20/1A by 25/1A carrying out site tests as per norms and calibrated the meter before & after load augmentation & found that the error is within permissible limits of accuracy class

4. DOWNLOADED DATA ANALYSIS ENCLOSED: YES/NO.

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

ANNEXURE

1. DETAILS OF SEALS:

R.R. No. 82/201A BDAF-82

SL. N O.	Seals Provided to	Sl. No. of Seals Found Plastic		Sl. No. of Seals Left Plastic	
		Main Meter	Check Meter	Main Meter	Check Meter
1	M.C. of Meter	BMG-94520 28-94323			
2	TC Of Meter	BEBA	37338		
3	M.D. Reset Knob	BEBA	30421	BEBA	A5090
4	Optical Port	BEBA	20355		A5091
5	T.T.B	BEBA	30425		A5094
6	Meter Chamber Main Door	BEBA	20356		A5092
7	Meter Reading Window	BEBA	20357		A5095
8	C.T./P.T. Chamber	BEBA	30428		A5096
9	Cable Entry Chamber	BEBA	30429		A5097
10	Hologram	clm Met BMG-94521 28-94316			

2. DETAILS OF THE EQUIPMENTS:

a) Cubicle Type : Cable Entry / 6 bushing / 3 bushing / LBS. Make..... Sl. No.....
b) Cubicle Conditions & Location.....

3. MULTIPLYING CONSTANT (MC) FOR BILLING (Kwh. Kvah. Kva)

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

OLD MC = 1100/1100 x 20/1A = 2000

4. DETAILS OF Ct's/ Pt's:

NEW MC = 1100/1100 x 25/1A = 2500

	Existing	After Replacement	Existing	After Replacement
1. Make				
2. Type				
3. Class				
4. Insulation level	Ap		Ap	
5. Burden	Easy		Easy	
6. Ratio Connected				
7. Sl.No.	1. R	R	R	R
	2. Y	Y	Y	Y
	3. B	B	B	B

5. DETAILS OF METERS:

ETV Meter

- Make
- Type
- Class
- Voltage
- Ampere
- Pulse / Unit
- Dial Constant
- Sl. No.

Existing
L.E.T
W/20082118ED(MS)
0.28
37.83.5V
1A
50000
22005255

After Replacement

6. A. CALIBRATION DETAILS:

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

B. % of Error

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

CALIBRATOR
61.65 61.11 62.02
0.428 0.368 0.421
0.0312 / 0.995
FAR
KVAH/

METER
82.66 82.72 62.30
0.542 0.483 0.621
0.1083 / 0.968
FAR
KVARH

0.013 / 10.142 to the unit

7. METER READINGS :

A. Cumulative Parameters

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

Existing
28/01/25 @ 15:30
Import Export
0.0938 PF 0.968
2009.765 56.635
TOD 1. 291.546 2.562
2. 500.023 54.086
3. 1009.734 0.021
4. 805.466 0.00

After Replacement
28/01/25 @ 16:00
Import Export
0.0938 PF 0.995
2009.765 56.635
TOD 1. 291.546 2.562
2. 500.023 54.086
3. 1009.734 0.021
4. 805.466 0.00

B. BILLING PARAMETERS :

- Billing KWH
- Billing KVA
- Billing PF (Universal TOD)

1944.2008 54.4012
TOD 1. 286.116 2.510
2. 483.258 51.884
3. 896.202 0.021
4. 578.630 0.000
0.1640 0.0951
TOD 1. 0.958 1.000
2. 36
3. Auto
4.

2009.765 56.635
TOD 1. 291.546 2.562
2. 500.023 54.086
3. 1009.734 0.021
4. 805.466 0.000
0.1635 0.0934
TOD 1. 0.952 1.000
2. 37
3. Manual
4.

- MD Reset Count
- MD Reset Manual/ Automatic On

Consumer's / Representative's Signature
With Seal

Asst. Executive Engineer (Ele.)
H.T. Rating Sub-Division
MT Division, BRAZ, Bangalore.

	Existing	After Replacement	Existing	After Replacement
1. Make	KAPPA	KAPPA		
2. Type	Indoor	Indoor		
3. Class	0.2	0.2	As	
4. Insulation level	15/38/195	15/38/195		
5. Burden	2.5VA	2.5VA	Flash	
5. Ratio Connected	20/1A	20/1A		
7. Sl.No.				
1. R	4283	R. 309528	R.	R.
2. Y	4284	Y. 309529	Y.	Y.
3. B	4282	B. 309529	B.	B.

5. DETAILS OF METERS:
ETV Meter

MAIN METER

	Existing	After Replacement
1. Make	WP	
2. Type	300 BB DMS	
3. Class	0.2	
4. Voltage	32.63.5V	
5. Ampere	1A	
6. Pulse / Unit	5000	
7. Dial Constant		
8. Sl. No.	22005235	

A. CALIBRATION DETAILS:

	CALIBRATOR	METER
a. Voltage V1, V2, V3	62.85 62.57 62.01	62.60 62.12 62.31
b. Current I1, I2, I3	0.282 0.285 0.282	0.817 0.900 0.903
c. P.F. / KW	0.0432 / 0.972	0.125 / 0.815
d. Sequence	For	For
B. % of Error		
a. Reading of Test Meter		
b. Reading of Reference Meter		
c. Percent Error		

METER READINGS :

- A. Cumulative Parameters
- a. Time Date, Month, Year
 - b. Demand with elapsed time
 - c. Self-diagnostic condition
 - d. Present KVA. PF
 - e. Cumulative KWH

	Existing	After Replacement
28/04/25 @ 15:22	Import	Import
	0.1236	0.0523
	56.690	56.690
TOD 1.	283.893	283.893
2.	500.930	500.930
3.	409.856	409.856
4.	805.543	805.543

B. BILLING PARAMETERS :

- a. Billing KWH
- b. Billing KVA
- c. Billing PF (Universal TOD)

	19/04.691	54.433		20/0.222	56.690
TOD 1.	285.483	2.538	TOD 1.	283.893	2.636
2.	486.118	51.835	2.	500.930	54.036
3.	396.323	0.019	3.	409.856	0.019
4.	228.351	0.000	4.	805.543	0.000
	0.1642	0.0951		0.1628	0.0982
TOD 1.			TOD 1.		
2.			2.		
3.			3.		
4.			4.		
	0.958	1.000		0.957	1.000
TOD 1.			TOD 1.		
2.			2.		
3.			3.		
4.			4.		

1. MD Reset Count

2. MD Reset Manual/ Automatic On

Consumer's / Representative's Signature
With Seal

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Asst. Executive Engineer (Els.)
H.T. Rating Sub-Division.
MT Division, BRAZ, Bangalore.