



Bangalore Electricity Supply Company Limited

(Wholly Owned By Government of Karnataka)

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Mob no: 9448279389

Office of the:

Asst. Executive Engineer (EI)

H.T. Rating Sub-Division, Tumkur

No. AEEE/HTR/2021-22/ 6710-713

Date: 11.03.2022

To,

Asst. Executive Engineer (EI),

O&M Sub-Division

BESCOM, Nittur.

Sir,

Subject: Rating report of HT installation

Ref: 1) AEE/AAO/SA/JA/NITTUR/2021- 22/964A Dt:11.03.2022

2) AEE/HTR/2021-22/4294-97A Dt:07.12.2021

The H.T. Installation having the following detail has been visited & rated on 11.03.2022 for replacement of existing meters by New meters and to replace the CT's With suitable ratio.

1. DETAILS OF H.T. INSTALLATION:

Previously rated on 07.12.2021

R.R No: SRTPVNHT-10	CD: 30kVA	MC: 2500	Tariff: HT-2A(ii)	Activity: Poultry Farm
Gen. Capacity: 500 kWp				

MULTIPLYING CONSTANT FOR BILLING: PT Ratio X CT ratio X Dial constant

Meter PT ratio x Meter CT ratio

11KV / $\sqrt{3}$ / 110V/ $\sqrt{3}$ X 25 /1A = 2500

Name & Address of the consumer: Sri N.Kumar. P M/s Thimmarayaswamy Poultry Farm, Jogihalli Village, Hagalwadi Hobli, Gubbi Taluk.

3. Observation & Advice On Technical Matter:

1. The installation is visited on 07.12.2021 as per your request subsequently it is opinioned vide ref(2) to replace the existing Main & check meters by New meters because of partial visibility of display portion and Existing CT's with suitable 25/1A Ratio CT'.
2. Relatively to ref(2) as per your request letter vide ref.(1) the installation is visited on 11.03.2022 for replacement of both Main & Check Meter and to replace the existing CT's by suitable 25/1A Ratio CT's.
3. After the said replacements The installation is also rated and calibrated and found % of error of meters is within permissible limits.

Yours faithfully

Asst. Executive Engineer (EI),
HT Rating S/D Bescom, Tumkur.

Copy for kind information to:

A. The Executive Engineer (Ele), MT division, CTZ, Chithradurga

Copy to:

B. Office copy to A.E.E. (Ele) H.T. Sub-Division, BESCOM, Tumkur.

D. The Accounts Officer, I/A Circle office, BESCOM, Tumkur for information.

D. The Consumer for information.

1. Details of Seals Provided:

Sl.No	Seals Provided to	Main Meter		Check Meter	
		Seals Found (Released Meter)	Seals Left (Fixed Meter)	Seals Found (Released Meter)	Seals Left (Fixed Meter)
1	M.C. Of Meter	BMA54337, 13267952 13267939	BMG16925 AH41027 MT102622	BMA54336, 13267978 13267950	BMG16924 XU96875 MT102621
2	T.C. of Meter	CTAZ20709	CTAZ103015	CTAZ20713	CTAZ103019
3	M.D. Reset Knob	CTAZ20710	CTAZ103016	CTAZ20714	CTAZ103020
4	Optical port	PCS	PCS	PCS	PCS
5	Meter chamber Main Door	CTAZ77955	CTAZ103018	CTAZ77957	CTAZ103022
6	T.T.B.	CTAZ77954	CTAZ103017	CTAZ77956	CTAZ103021
		Found		Left	
7	Meter Reading window	PCS		PCS	
8	C.T./P.T. Chamber	CTAZ20717		CTAZ103023	
9	Cable entry	CTAZ20718		CTAZ103024	

2. DETAILS OF THE EQUIPMENTS:

- a. Cubicle type: *Cable Entry*
b. Cubical Condition & Location: *GOOD*
c. Supply side: *GOS In service*

Lightning Arrester- *Provided*
Load side isolation- *Attached LBS*

3. Details Of CTs/PTs:

Sl.No.		Released CT Details	Fixed CT Details	PT Details
1.	Make	VENKAT	Vyoma	VENKAT
2.	Type	INDOOR	INDOOR	INDOOR
3.	Class	0.2	0.2	0.2
4.	Insulation level	15/38/95kV	15/38/95kV	15/38/95kV
5.	Burden	2.5VA	2.5VA	25VA
6.	Ratio Connected	35/1 A	25/1 A	11KV/√3/110/√3V
7.	Sl.No., 'R' ph	225/2016	VYC-K5087	299/2016
	'Y' Ph	224/2016	VYC-K5086	298/2016
	'B'ph	223/2016	VYC-K5085	297/2016

4. A Details Of Electronic Trivector Net Meters

Sl.No		Released Main Meter Bi-directional	Fixed Main meter Bi-directional	Released Check meter Bi-directional	Fixed Check meter Bi-directional
a.	Make	SECURE	L&T	SECURE	L&T
b.	Type	E3M024,Bidirectional, NTD 56.02	NTD56.02, Bidirectional DLMS, CAT-B	E3M024, Bidirectional, NTD 56.02	NTD56.02, Bidirectional DLMS, CAT-B
c.	Class	0.2s	0.2s	0.2s	0.2s
d.	Voltage	3x63.5V	3X63.5V	3x63.5V	3X63.5V
e.	Ampere	1A	1A	1A	1A
f.	Pulse/unit	160000	50000	160000	50000
g.	Dial/constant	1	1	1	1
h.	Sl.No./Year	BES 80949/2016	21008307/2021-Sept	BES 80950/2016	21009887/2021-Nov

5. A. Calibration Details Before Meters Replacement

Main Meter	CALIBERATOR	METER
A. Voltage (V)	65.08/64.92/64.66	65.32/65.14/65.13
B. Current (A)	0.1071/0.1127/0.1134	0.17/0.18/0.19
C. kW/kVAr/kVA/PF	0.01872/0.0018/0.02106/-0.872	0.04/0.00/0.02/-0.998
D. Sequence	Reverse	Reverse

	Wh	VARh lg/lđ	Vah	Pf
a. MRI	Error Measurement is done using Zera			
b. Accucheck				
c. % loss	0.18%			

Check Meter	CALIBERATOR	METER
A. Voltage (V)	65.20/65.12/64.89	65.61/65.35/65.35
B. Current (A)	0.1838/0.1867/0.1905	0.28/0.28/0.28
C. kW/kVAr/kVA/PF	-0.03519/0.0093/0.03744/0.957	0.05/0.00/0.05/0.998
D. Sequence	Reverse	Reverse

	Wh	VARh lg/lđ	Vah	Pf
b. Accucheck	Error Measurement is done using Zera			
c. % loss	0.16%			

5. B. Calibration Details After Meters Replacement

New Main Meter	CALIBERATOR	METER
A. Voltage (V)	65.12/65.16/63.62	65.20/64.92/63.69
B. Current (A)	0.0437/0.0410/0.0252	0.043/0.040/0.024
C. kW/ kVAR/ kVA/ PF	0.00572/0.00380/0.00711/0.804	0.0056/0.0037/0.0068/0.712
D. Sequence	Reverse	Reverse

	Wh	VARh lg/lđ	Vah	Pf
a. MRI	Error Measurement is done using Zera			
b. Accucheck				
c. % loss	0.20%			

New Check Meter	CALIBERATOR	METER
A. Voltage (V)	65.76/65.77/64.35	65.67/65.83/64.35
B. Current (A)	0.0471/0.0441/0.0252	0.044/0.041/0.024
C. kW/ kVAR/ kVA/ PF	0.00572/0.00406/0.00728/0.784	0.0057/0.0040/0.0070/0.678
D. Sequence	Reverse	Reverse

	Wh	VARh lg/lđ	Vah	Pf
b. Accucheck	Error Measurement is done using Zera			
c. % loss	0.19%			

5.A.Final Values for Released Meters:

6. Meter Reading	Main Meter (Imp/Exp)	Check Meter (Imp/Exp)
Meter SL.No.	BES 80949/2016	BES 80950/2016
Time, Date, Month, Year	04:51 Hrs(Time Error)	16:23 Hrs
a. Present kVA	0.005/0.101	0.004/0.101
b. Present PF	0.735	0.742
c. Cumulative Values		
1. CkVA	0.363/4.578	0.367/4.588
2. CkWh	25.3/528.6	25.3/528.7
3. CkVARh Lag	15.0/19.4	15.0/19.5
4. CkVARh Lead	0.3/3.5	0.3/3.5
5. CkVAh	31.0/529.2	31.0/529.3
C. Billing values		
1.BkWh	25.2/522.9	25.1/522.9
2.Bkva	0.005/0.108	0.005/0.107
3.Bpf	0.798	0.800
4.R/C	0054	0054

5.B.Initial Values for Fixed Meters:

6. Meter Reading (Fixed Meters)	Main Meter (Imp/Exp)	Check Meter (Imp/Exp)
Meter SL.No.	21008307/2021-Sept	21009887/2021-Nov
Time, Date, Month, Year	17:23 Hrs	17:15 Hrs
d. Present kVA	0.000/0.000	0.000/0.000
e. Present PF	0.000/0.000	0.000/0.000
f. Cumulative Values		
6. CkVA	0.405/0.125	0.203/0.125
7. CkWh	0.279/0.089	0.134/0.068
8. CkVARh Lag	0.156/0.060	0.073/0.035
9. CkVARh Lead	0.044/0.33	0.042/0.033
10. CkVAh	0.373/0.132	0.0179/0.088
C. Billing values		
1.BkWh	0.279/0.089	0.134/0.068
2.Bkva	0.0507/0.0296	0.0483/0.0302
3.Bpf	0.744/0.642	0.704/0.600
4.R/C	09	06

Solar LT Meter

LT Solar Meter SI No.	CTR	MC	CkWh	BkWh	B Kw
3121798	1000/5A	200	9655.56	9550.65	1.877
Voltage			Current		
246.78V/ 247.28V/ 247.00V			1.19A/ 1.18A/ 1.20A		


Asst. Engineer(Ele)
H.T. Rating Sub-Division
BESCOM, Tumkur


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 Consumer/ Representative
 Signature with Seal