


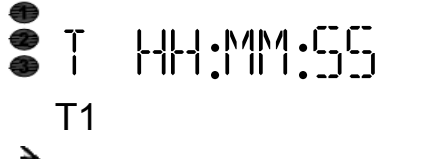
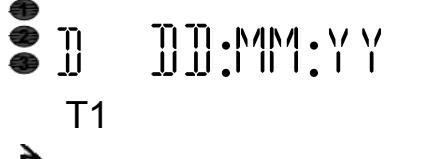

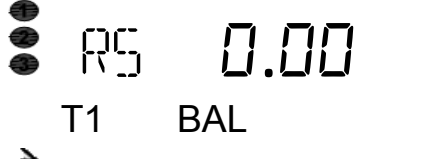
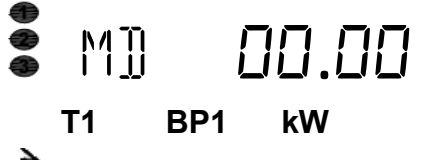
Auto Scroll Display

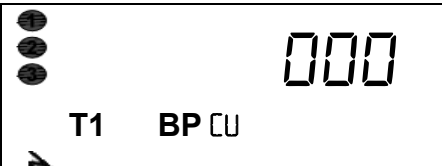
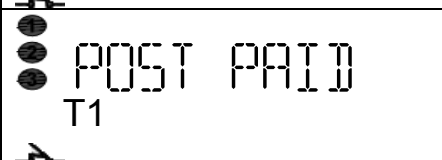
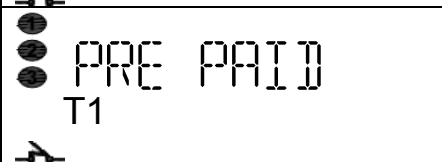
TABLE-1

Calibration Mode

1.		Active power in kW
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TABLE-2

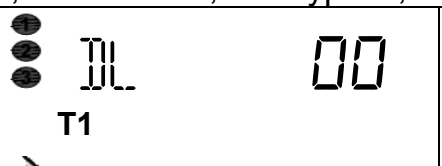
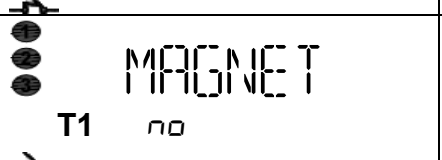
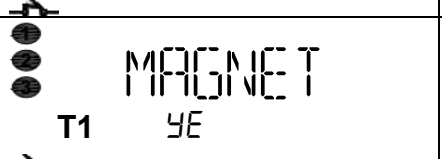
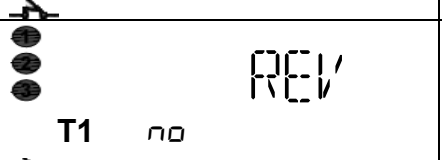
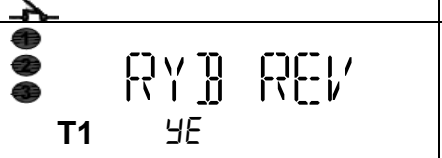
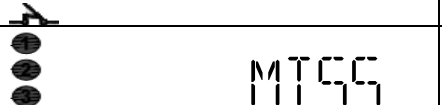
1.		All Segment Display
2.		Real Time (hh:mm:ss)
3.		Real Date (dd:mm:yy)
4.		Cumulative energy (kWh/kVAh)
5.		Balance in rupees
6.		Last Month MD (kW/kVA)

































7.		Cumulative Billing Period Counts
8A.		When Postpaid present
8B.		When Prepaid present

Push Button Display

TABLE-3

PUSH-1 MODE: Press key '1' to see the approximate Days left , tamper status of Magnet, CT reverse, Phase miss, CT Bypass, CT OPEN and ND and last five ABC codes.

1.		Approximate Days left
2.		When magnet tamper not present
2a.		When magnet tamper present is displayed as YE
3.		When none of the phase current is reverse
3a.		When Phase wise Current reverse tamper is present displayed as YE
4.		When Potential missing tamper not present





















	                               	<p>T1 no</p> <p>RYB MISS</p> <p>T1 YE</p> <p>BY PASS</p> <p>T1 no</p> <p>BY PASS</p> <p>T1 YE</p> <p>CT OPEN</p> <p>T1 no</p> <p>RYB OPEN</p> <p>T1 YE</p> <p>ND</p> <p>T1 no</p> <p>ND</p> <p>T1 YE</p> <p>A1 00000</p> <p>T1 BP1</p> <p>A2 00000</p> <p>T1 BP1</p> <p>A3 00000</p> <p>T1 BP1</p>	<p>When Corresponding Phase wise Potential missing tamper is present displayed as YE</p> <p>When BY PASS tamper not present</p> <p>When BY PASS tamper present is displayed as YE</p> <p>When ct open is not present</p> <p>When Corresponding phase wise CT Open tamper is present is displayed as YE</p> <p>When Neutral Disturbance Tamper is not present</p> <p>When Neutral Disturbance Tamper is present is displayed as YE</p> <p>Last ABC Code Part-1</p> <p>Last ABC Code Part-2</p> <p>Last ABC Code Part-3</p>
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11.	 A4 T1 BP1 00000	Last ABC Code Part-4
12.	 A1 T1 BP2 00000	2 ND Last ABC Code Part-1
13.	 A2 T1 BP2 00000	2 ND Last ABC Code Part-2
14.	 A3 T1 BP2 00000	2 ND Last ABC Code Part-3
15.	 A4 T1 BP2 00000	2 ND Last ABC Code Part-4
16.	 A1 T1 BP3 00000	3 RD Last ABC Code Part-1
17.	 A2 T1 BP3 00000	3 RD Last ABC Code Part-2
18.	 A3 T1 BP3 00000	3 RD Last ABC Code Part-3
19.	 A4 T1 BP3 00000	3 RD Last ABC Code Part-4
20.	 A1 T1 BP4 00000	4 TH Last ABC Code Part-1

21.	 A2 00000 T1 BP4	4 TH Last ABC Code Part-2
22.	 A3 00000 T1 BP4	4 TH Last ABC Code Part-3
23.	 A4 00000 T1 BP4	4 TH Last ABC Code Part-4
24.	 A1 00000 T1 BP5	5 TH Last ABC Code Part-1
25.	 A2 00000 T1 BP5	5 TH Last ABC Code Part-2
26.	 A3 00000 T1 BP5	5 TH Last ABC Code Part-3
27.	 A4 00000 T1 BP5	5 TH Last ABC Code Part-4

PUSH-2 MODE: Press key '2' to see Last day consumption, last week consumption and last 12 months consumption in terms of rupees.

1.	 RS 0.00 T1 Ld	Last day consumption in Rs
2.	 RS 0.00 T1 LU	Last week consumption in Rs

3.	 	0.00	Last month consumption in Rs
4.	 	0.00	2 nd Last month consumption in Rs
5.	 	0.00	3 rd Last month consumption in Rs
6.	 	0.00	4 th Last month consumption in Rs
7.	 	0.00	5 th Last month consumption in Rs
8.	 	0.00	6 th Last month consumption in Rs
9.	 	0.00	7 th Last month consumption in Rs
10.	 	0.00	8 th Last month consumption in Rs
11.	 	0.00	9 th Last month consumption in Rs
12.	 	0.00	10 th Last month consumption in Rs





13.	 T1 BP11 0.00	11 th Last month consumption in Rs
14.	 T1 BP12 0.00	12 th Last month consumption in Rs

PUSH-3 MODE: Press key '3' to see the tariff rates and their corresponding energy (kWh/kVAh) and daily fixed charge.

































Below 8 slabs/TOD's Are Configurable

1.	 RS T1 51 0.00	1 st Slab Rate in rupees
2.	 000000.0 T1 51 kW h	1 st Slab energy (in kWh/kVAh)
3.	 RS T1 52 0.00	2 nd Slab Rate in rupees
4.	 000000.0 T1 52 kW h	2 nd Slab energy (in kWh/kVAh)
5.	 RS T1 53 0.00	3 rd Slab Rate in rupees
6.	 000000.0 T1 53 kW h	3 rd Slab energy (in kWh/kVAh)

7.		4 th Slab Rate in rupees
8.		4 th Slab energy (in kWh/kVAh)
9.		5 th Slab Rate in rupees
10.		5 th Slab energy (in kWh/kVAh)
11.		6 th Slab Rate in rupees
12.		6 th Slab energy (in kWh/kVAh)
13.		7 th Slab Rate in rupees
14.		7 th Slab energy (in kWh/kVAh)
15.		8 th Slab Rate in rupees
16.		8 th Slab energy (in kWh/kVAh)

17.	    T1 FC 0.00	Fixed charge per day (in Rs.)
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PUSH-4 MODE: Press key '4' to see last 5 vend codes and refund code.

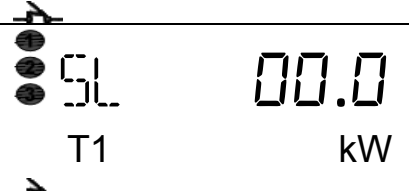
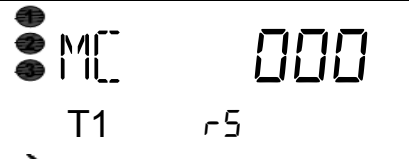

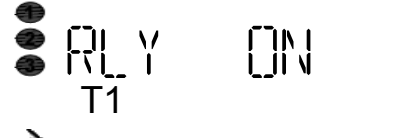
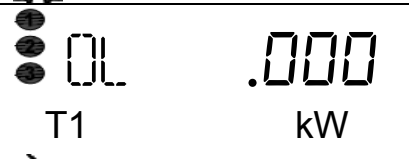
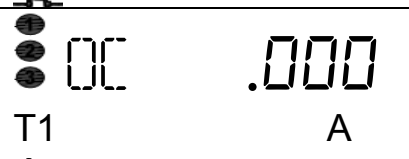
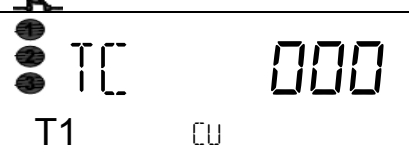
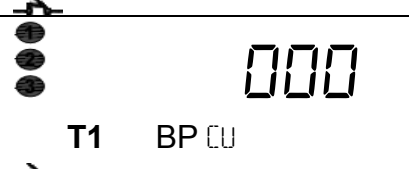
1.	    1A 00000 T1	Last vend Code Part-1
2.	    1B 00000 T1	Last vend Code Part-2
3.	    1C 00000 T1	Last vend Code Part-3
4.	    1D 00000 T1	Last vend Code Part-4
5.	    2A 00000 T1	2 ND Last vend Code Part-1
6.	    2B 00000 T1	2 ND Last vend Code Part-2
7.	    2C 00000 T1	2 ND Last vend Code Part-3
8.	    2D 00000 T1	2 ND Last vend Code Part-4

9.	<p>3A T1 00000</p>	3 RD Last vend Code Part-1
10.	<p>3B T1 00000</p>	3 RD Last vend Code Part-2
11.	<p>3C T1 00000</p>	3 RD Last vend Code Part-3
12.	<p>3D T1 00000</p>	3 RD Last vend Code Part-4
13.	<p>4A T1 00000</p>	4 TH Last vend Code Part-1
14.	<p>4B T1 00000</p>	4 TH Last vend Code Part-2
15.	<p>4C T1 00000</p>	4 th Last vend Code Part-3
16.	<p>4D T1 00000</p>	4 th Last vend Code Part-4
17.	<p>5A T1 00000</p>	5 th Last vend Code Part-1
18.	<p>5B T1 00000</p>	5 th Last vend Code Part-2


19.		5 th Last vend Code Part-3
20.		5 th Last vend Code Part-4
21.		Refund Code Part-1
22.		Refund Code Part -2
23.		Refund Code Part -3
24.		Refund Code Part -4





















PUSH-5 MODE: Press key '5' to see cumulative recharge amount, Cumulative fixed charge, meter serial number, sanction load, Minimum Charge Amount, All Segment Display, Present Relay Status, Overload Limit, Over Current Limit, Cumulative Tamper Counts and Cumulative Bill Counts.

1.		Cumulative recharge amount (in Rs.)
2.		Cumulative Fixed charge (in Rs.)
3.		Meter serial number

	T1 5n	
4.	 SL 00.0 kW	Sanctioned load in kW
5.	 MC 000	Minimum Charge Amount (in Rs.)
6.	 T8 BP88BAL kWh	All segment Display
7.	 RLY ON T1	Present Relay Status ON/OFF
8.	 OL .000 kW	Overload Limit (in kW)
9.	 OC .000 A	Over Current Limit (in Amp.)
10.	 TC 000 T1 CU	Cumulative Tamper Counts
11.	 000 T1 BP CU	Billing Period Counts

PUSH-6 MODE: Press key '6' to see the Active power, apparent power, phase wise voltage, power factor, phase wise current, neutral current, date, time, frequency and load cost .



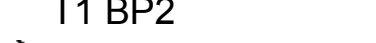
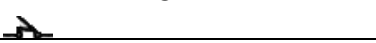
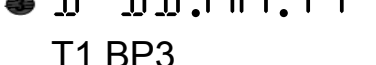
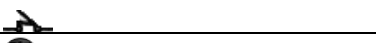
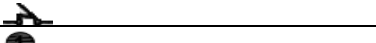

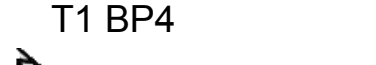

1.	 00.000 kW	Instant Active power (kW)
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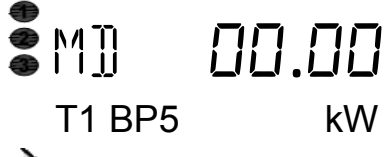
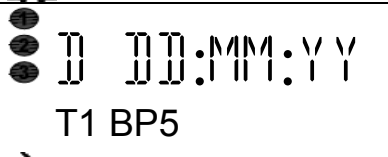
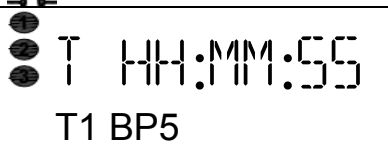
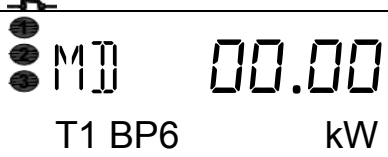
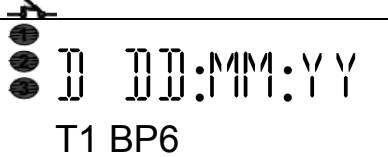
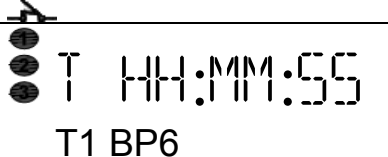
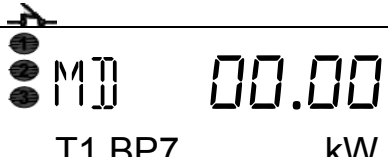
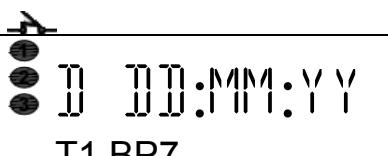
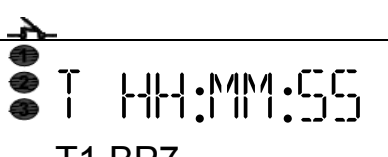

		
2.	 T1 kVA 00.000	Instant Apparent power (kVA)
3.	  RV T1 V 000.00	Instant R phase Voltage (Volts)
4.	  YV T1 V 000.00	Instant Y phase Voltage (Volts)
5.	  BV T1 V 000.00	Instant B phase Voltage (Volts)
6.	  PF T1 0.000	Instant Power Factor
7.	  RI T1 A 00.000	Instant R-Phase current (Amps.)
8.	  YI T1 A 00.000	Instant Y-Phase current (Amps.)
9.	  BI T1 A 00.000	Instant B-Phase current (Amps.)
10.	  IN T1 A 00.000	Instant Neutral current (Amps.)
11.	  DD:MM:YY	Real Date (dd:mm:yy)

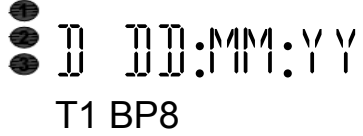
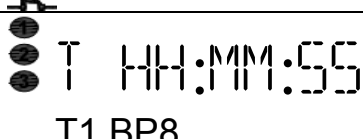

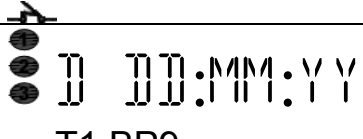
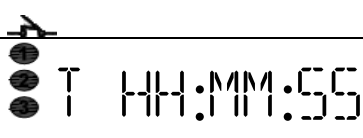
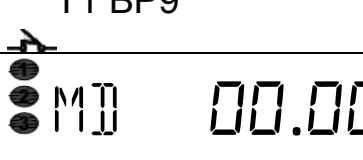
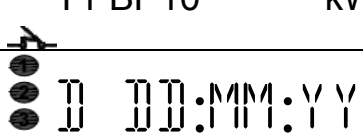
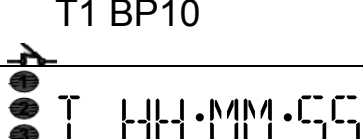
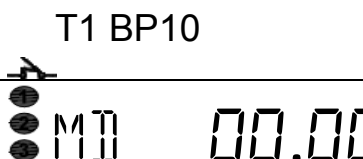
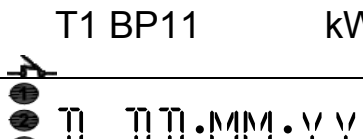
	T1	
12.	T HH:MM:SS T1	Real Time (hh:mm:ss)
13.	FR 00.000 T1 H2	Instant Frequency (Hz)
14.	RS 0.00 T1 LC	Approximate Load cost (Rs.)

PUSH-7 MODE: Press key '7' to see current month and last 12 month MD (in kW/kVA) with date and time .

1.	MD 00.00 T1 kW	Current month MD (In kW/kVA)
2.	D DD:MM:YY T1	Current month MD Date (dd:mm:yy)
3.	T HH:MM:SS T1	Current month MD Time (hh:mm:ss)
4.	MD 00.00 T1 BP1 kW	Last month MD (In kW/kVA)
5.	D DD:MM:YY T1 BP1	Last month MD Date (dd:mm:yy)
6.	T HH:MM:SS T1 BP1	Last month MD Time (hh:mm:ss)

		
7.	 	Last 2 nd month MD (In kW/kVA)
8.	  	Last 2 nd month MD Date (dd:mm:yy)
9.	  	Last 2 nd month MD Time (hh:mm:ss)
10.	  	Last 3 rd month MD (In kW/kVA)
11.	  	Last 3 rd month MD Date (dd:mm:yy)
12.	  	Last 3 rd month MD Time (hh:mm:ss)
13.	  	Last 4 th month MD (In kW/kVA)
14.	  	Last 4 th month MD Date (dd:mm:yy)
15.	  	Last 4 th month MD Time (hh:mm:ss)







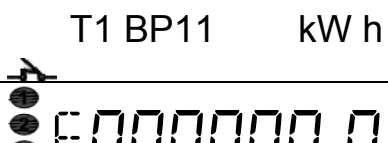
16	 <p>MD 00.00 T1 BP5 kW</p>	Last 5 th month MD (In kW/kVA)
17	 <p>DD:MM:YY T1 BP5</p>	Last 5 th month MD Date (dd:mm:yy)
18	 <p>HH:MM:SS T1 BP5</p>	Last 5 th month MD Time (hh:mm:ss)
19	 <p>MD 00.00 T1 BP6 kW</p>	Last 6 th month MD (In kW/kVA)
20	 <p>DD:MM:YY T1 BP6</p>	Last 6 th month MD Date (dd:mm:yy)
21	 <p>HH:MM:SS T1 BP6</p>	Last 6 th month MD Time (hh:mm:ss)
22	 <p>MD 00.00 T1 BP7 kW</p>	Last 7 th month MD (In kW/kVA)
23	 <p>DD:MM:YY T1 BP7</p>	Last 7 th month MD Date (dd:mm:yy)
24	 <p>HH:MM:SS T1 BP7</p>	Last 7 th month MD Time (hh:mm:ss)
25	 <p>MD 00.00 T1 BP8 kW</p>	Last 8 th month MD (In kW/kVA)

26	 <p>T1 BP8</p>	Last 8 th month MD Date (dd:mm:yy)
27	 <p>T1 BP8</p>	Last 8 th month MD Time (hh:mm:ss)
28	 <p>T1 BP9 kW</p>	Last 9 th month MD (In kW/kVA)
29	 <p>T1 BP9</p>	Last 9 th month MD Date (dd:mm:yy)
30	 <p>T1 BP9</p>	Last 9 th month MD Time (hh:mm:ss)
31	 <p>T1 BP10 kW</p>	Last 10 th month MD (In kW/kVA)
32	 <p>T1 BP10</p>	Last 10 th month MD Date (dd:mm:yy)
33	 <p>T1 BP10</p>	Last 10 th month MD Time (hh:mm:ss)
34	 <p>T1 BP11 kW</p>	Last 11 th month MD (In kW/kVA)
35	 <p>T1 BP11</p>	Last 11 th month MD Date (dd:mm:yy)



36		Last 11 th month MD Time (hh:mm:ss)
37		Last 12 th month MD (In kW/kVA)
38		Last 12 th month MD Date (dd:mm:yy)
39		Last 12 th month MD Time (hh:mm:ss)

PUSH-8 MODE: Press key '8' to see last 12 month billing Cumulative Energy (in kWh/kVAh).

1.		Last month Billing Energy
2.		Last 2 nd month Billing Energy
3.		Last 3 rd month Billing Energy
4.		Last 4 th month Billing Energy
5.		Last 5 th month Billing Energy

6.		Last 6 th month Billing Energy
7.		Last 7 th month Billing Energy
8.		Last 8 th month Billing Energy
9.		Last 9 th month Billing Energy
10.		Last 10 th month Billing Energy
11.		Last 11 th month Billing Energy
12.		Last 12 th month Billing Energy

PUSH-9 MODE : Press key '9' to see Cumulative energy in kWh, kVAh and High resolution energy in kWh, kVAh and Meter Software Version.

1.		Cumulative Active energy (kWh)
2.		Cumulative Apparent energy (kVAh)

3.		High resolution Active energy (kWh)
4.		High resolution apparent energy (kVAh)
4.		Meter Software Version

PUSH-# MODE: Press key '#' to see the balance amount left in meter.

1.		Balance in rupees
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PUSH-0 MODE: Press key '0' to avail the emergency credit and to see the emergency credit.

1.		If Emergency credit left (in Rs.)
1a.		If Emergency credit left (in days)
1b.		When Meter in Postpaid Mode

PUSH-* MODE: Press key '*' to start token code punching and as backspace key.

DISPLAY MODES:-**Under Power ON condition**

Display parameters are displayed in two different modes called Auto Scrolling and push button mode.

Auto Scroll Display:

- This is default display mode. Meter will continuously scroll through Auto Scroll Display Parameters (Refer TABLE-1 for Calibration Mode and Refer TABLE-2 for Main Mode). Each parameter will be displayed for 10 seconds.
- If Top cover open tamper or overload condition occur then it will display permanently and auto scroll mode display will be disabled.
- If any of the following tamper is present in meter then it will also display in auto scroll mode with following priority.

1.RTC FAIL

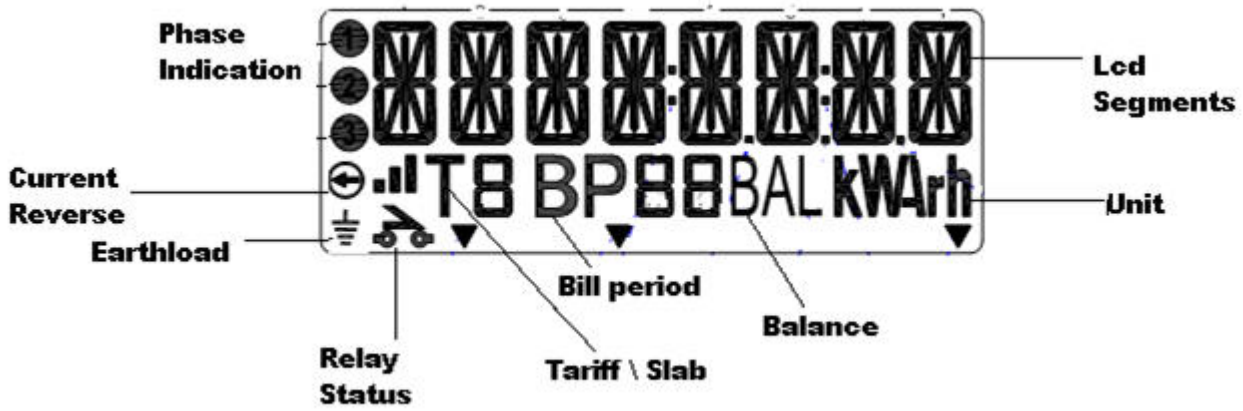
2.NVM FAIL

3.HV ESD


4.MAGNET

Push Button Display: -The auto scrolling will switch to Push Button Display with pressing of respective keys via keypad & all Push Button Display parameters (Refer TABLE-3 for meter Push mode). Can be view by using key .If Push Button not pressed for 30Sec then Display will switch over to default Display.

LCD Indication:-



- ⏏ **Relay status off**
- ⏏ **Relay status on**

-  Sign appear on every display in main mode when communicated with CIU after FG whereas before FG In Calibration mode it will be seen as blinking sign which denotes meter is not calibrated.

Revision No.	Revision History	Date
00	Initial	22/05/2017
01	Balance add in auto mode	17/06/2017

Authentication

Particulars	Prepared By	Approved By
Name	Vinod kumar	Deepak Sharma
Signature	Vinod kumar	Deepak Sharma
Date	22/05/2017	22/05/2017