

MADHYA GUJARAT VIJ COMPANY LIMITED
HI-TECH LABORATORY

Vidyut Nagar Substation Compound , Diwalipura Road,
Baroda – 390 007, Ph : (0265) 2333346



HI-TECH /RT-63/2015/MGVCL/3239

Date:-30/06/2015

To,
M/s ENVOLTA SYSTEMS,
FF-46, Sahjanand Complex,
Gadkhol Patia,
Old N. H. 08,
Ankleshwar – 393 001,
Dist.:-Bharuch

Sub: Testing Report

Dear Sir,

With Reference to above subject, Please find enclosed herewith the TESTING REPORT for the Meter Tested at Hi-Tech Lab.

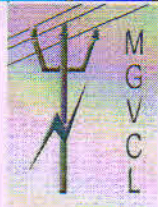
The detail of Meter is under:

Make : **ENERSOL**
Sr No : **267671**

Thanking You,

Yours Faithfully,

Varsha Joshi
(D.E Hi-Tech Lab)



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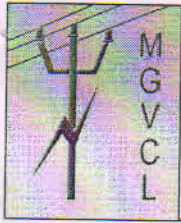
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Vidyut Nagar Substation Compound , Old Padra Road , Baroda – 390 007
Ph : (0265) 2333346 Fax : (0265)2336706 E-mail : lab.vwest@gebmail.com






Certi No:T-1296

TEST REPORT NO. : Hi-TECH/RT/63/2015

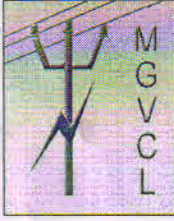
DATE OF REPORT : 30/06/2015

SHEET : 1 of 4

TEST REPORT

NAME & ADDRESS OF CUSTOMER M/s ENVOLTA SYSTEMS, FF-46, Sahjanand Complex, Gadkhol Patia, Old N. H. 08, Ankleshwar – 393 001, Dist.:-Bharuch	CUSTOMER REF. NO: As per SRF No. 2337, Dtd:-18/06/2015	
	DATE OF SAMPLE RECEIPT	DATE OF SAMPLE TESTING
	18/06/2015	23/06/2015
<u>SAMPLE DESCRIPTION</u> 1 no. of 3 ph, 4 wire, ac Static meter. Make : ENERSOL Type /Model : MFR4205 Voltage :- 415V (3x240V), Freq:- 50HZ Current : 5A/5A, Class : 0.5 Imp/Unit : 1600(KWh-KVArh)	<u>SAMPLE IDENTIFICATION</u> Meter No. : 1) 267671 Job Code: RT/63/2015/01	
TEST DETAILS As per sheet no. 2 Temp. :- 27°C ± 2 °C Humidity :- < 70 Rh RESULTS :- As per enclosed sheets. LAB PROCEDURE : TPEM05 & TPEM02 Test Witnessed By : ---	TEST SPECIFICATION Procedure as per IS 14697 : 1999 Amendment 03:2004	
 (A.H.Patel) PREPARED BY	 (C.V.Bhatt) CHECKED BY	 (V.R.Joshi) APPROVED BY

- Notes : 1 : This Report relates only to the particular item(s) received in good condition for Testing at MGVCL Hi – Tech lab..
2 : This Report shall not be reproduced, except in full, without written approval of MGVCL.
3 : The Test Results reported in the Report are valid at the time of and under stated condition of measurements.
4 : Only the Tests asked by the customer have been carried out.



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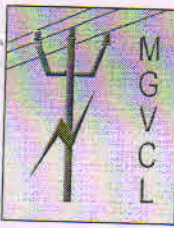
SHEET : 2 of 4

List of Test Carried out

Sr. No.	Test	Clause No.
1	Starting Condition	Clause No. 12.13 &11.5 of IS 14697 : 1999
2	Running with no Load	Clause No. 11.4.2 &12.12 of IS 14697 : 1999
3	Meter Constant Test	Clause No. 11.6 of IS 14697 : 1999
4	Limits of Error	Clause No. 11.1 of IS 14697 : 1999


Prepared By


Checked By



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TEST REPORT NO. : Hi-TECH/RT/63/2015

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SHEET : 3 of 4

1) Starting Condition.

Requirement as per Specification	The Meter shall start and continue to register at current 0.1% Ib, UPF.	Remarks
Meter No.	Obtained Values	
267671	Satisfactory	Conform

2) Running with no-load.

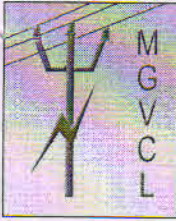
Requirement as per specification	With Current Circuit open , a voltage at 115% of ref. Voltage applied to the voltage circuits. The minimum test period shall be 20 times of the actual test period of starting current. The Max. test period shall be limited to 200 min. The test output of the meter shall not produce more than 1 out pulse.	Remarks
Meter No.	Obtained Values	
267671	Satisfactory	Conform

3) Meter Constant Test

Requirement as per Specification		The Relation between the test out put and the indication in the display shall comply with the marking on the name plate.						
Meter No.	Type of Energy	Load Point	Permissible %Error Limit	Meter Constant of DUT	Energy Registered by DUT	Pulse Output of DUT observed	% Error	Remarks
267671	Active.	Vref,100% Ib, UPF	±0.5	1600	0.1001	1603	-0.087	Conform


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SHEET : 4 of 4

4) *Limits of Error : For Active Energy*

Requirement as per Specifications				Obtained %Error	Remarks
Sr. No.	% Load of Ib	Phase Angle Cos Φ	Permissible % Error Limits	Meter No.	
				267671	
1	120	1.0	± 0.5	-0.0667	Conform
2	120	0.5Lag	± 0.6	0.408	Conform
3	120	0.8Lead	± 0.6	-0.270	Conform
4	100	1.0	± 0.5	-0.057	Conform
5	100	0.5Lag	± 0.6	0.434	Conform
6	100	0.8Lead	± 0.6	-0.279	Conform
7	50	1.0	± 0.5	-0.056	Conform
8	50	0.5Lag	± 0.6	0.548	Conform
9	50	0.8Lead	± 0.6	-0.320	Conform
10	10	1.0	± 0.5	-0.085	Conform
11	10	0.5Lag	± 0.6	0.579	Conform
12	10	0.8Lead	± 0.6	-0.406	Conform
13	5	1.0	± 0.5	-0.128	Conform
14	5	0.5Lag	± 1.0	0.514	Conform
15	5	0.8Lead	± 1.0	-0.473	Conform
16	2	1.0	± 1.0	-0.262	Conform

Prepared by

End of Report

Checked by