



सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES

MSME - TECHNOLOGY DEVELOPMENT CENTRE,
MUMBAI

वैधुतिक मापन उपयंत्र अभिकल्प संस्थान, मुंबई

INSTITUTE FOR DESIGN OF ELECTRICAL
MEASURING INSTRUMENTS, MUMBAI



भारत सरकार की सोसाईटी
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Government of India Society
Ministry of Micro, Small & Medium Enterprises

संदर्भ सं. / Ref. No. IDEMI/ETL/068/14-15

दिनांक :
Date : 07.07.2014

M/s. TAS POWERTEK PVT. LTD.,
W-161, NEAR PAWAR INDUSTRIES,
M.I.D.C., AMBAD,
NASHIK - 422 010
MAHARASHTRA, INDIA

Kind Attn: Mr. Jaykrushna Puranik

विषय : परिक्षण रिपोर्ट
Sub : Test Report

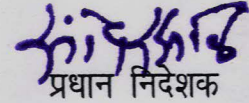
महोदय,

आपके उपकरणों / अवयवों पर किये हुये परिक्षण रिपोर्ट संख्या (TR/ETL/061/14-15) आपको जानकारी के लिए पत्र के साथ भेज रहे हैं। यदि आपको परिक्षित मदों पर स्पष्टीकरण की कोई आवश्यकता हो तो, कृपया परिक्षण रिपोर्ट जारी करने वाले प्राधिकारी को हमारे संदर्भ संख्या और तारीख का उल्लेख करते हुए, रिपोर्ट प्राप्त होने पर चार सप्ताह के अन्दर सम्पर्क करें अथवा लिखें। हम इस पत्र के साथ फीड बैक फॉर्म भेज रहे हैं। कृपया उसे भरके प्रधाननिदेशक, वैमाउअसं को भेजे।

धन्यवाद!

भवदीय

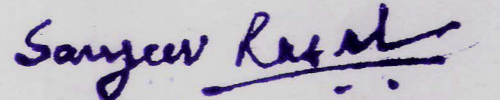
संलग्न पत्रानुसार


प्रधान निदेशक

Dear Sir,

Test Report No. (TR/ETL/061/14-15) / on your instruments/ Components/ Equipments are / is enclosed herewith for your information. If you need any clarification on Test Report, please write/contact Test Report issuing officer quoting our reference and date within 4 weeks from the date of receipt of this report. We are also enclosing here with feed back form. Kindly fill up and send to the Principal Director of IDEMI
Thanking you,

Yours faithfully


PRINCIPAL DIRECTOR

Encl. As above

Swatantryaveer Tatya Tope Marg, Chunabhatti, Sion P.o. Mumbai - 400 022. (M.S)

Phone : (022) - 2405 0301/2/3/4 Fax : (022) - 2405 0016.

• Website : www.idemi.org / msmetdcmumbai.org • Email : idemi@vsnl.net, idemi@mtnl.net.in

TEST REPORT

Field: Electrical Testing
Work Order No. : WO/ETL/060/14-15
Date : 30.06.2014Test Report No. : TR/ETL/061/14-15
Date of Testing : 03.07.2014
Page No.: 1 of 4

Test Item : Power Factor Controller

Tested for : M/s. TAS Powertek Pvt. Ltd.,

W-61, Near Pawar Industries, M. I. D. C., Ambad, Nashik - 422 010, Maharashtra, India

Tested at : IDEMI, Mumbai. 400 022

Specification of equipment under test	Specification of Standards Used
Manufacturer : M/s. TAS Powertek Pvt. Ltd., Condition of Item on receipt : Good Aux Supply : 115 - 480 VA AC, 50Hz Line Voltage : 480V AC, 3 Phase 4 Wire Sr. No. : 4200061400053 Type : SPF - 54 / 06	1 Energy Meter Test System Model : MT 3000 Calibration Validity : 04.01.2016 Traceability: Standard Used for Testing are Traceable to National standards

Ambient Conditions :Temperature : $25^{\circ}\text{C} \pm 2.5^{\circ}\text{C}$ Relative Humidity : 35% to 65%

Remarks : Please refer page 2 to 4 for Test Results.

1) Procedure of Test : The above mentioned equipment is tested for

1. Accuracy Test
 2. Voltage Variation Test
 3. Starting Current Test
- as per IS 14697: 1999 & Customer Requirements

2) The Power Factor Controller complies with the requirements for tests carried out.

C. M. PATIL
ASST. DIRECTOR
AUTHORISED SIGNATORY

(Note : This report refers only to the particular item(s) submitted for testing. The report should not be reproduced except in full without the prior permission from the Principal Director IDEMI, Mumbai - 400 022)

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स्वातंत्र्यवीर तात्या टोपे मार्ग, चुनाभट्टी, सायन डाकघर, मुंबई - 400 022.

SWATANTRYAVEER TATYA TOPE MARG, CHUNABHATTI, SION P.O. MUMBAI - 400 022.

ELECTRICAL TESTING LABORATORYSr. No: 4200061400053
Date of Test: 03.07.2014Test Report No.: TR/ETL/061/14-15
Page No.: 2 of 4**1. Accuracy Test (IS 14697 Cl. No. 11.1):****a. Polyphase meter With balanced load (Active Power)**

Set Values							COS PHI	Std. reading (kW)	EUT reading (kW)	% Error measured	% Error allowed
Voltage (V)			Current (Amp.)								
R PH	Y PH	B PH	R PH	Y PH	B PH						
254	254	254	6	6	6	1	4571.0	4572.0	+0.02	± 1.0	
254	254	254	5	5	5	1	3809.98	3810.8	+0.02	± 1.0	
254	254	254	2.5	2.5	2.5	1	1905.00	1908.0	+0.16	± 1.0	
254	254	254	1	1	1	1	762.01	763.7	+0.22	± 1.0	
254	254	254	0.25	0.25	0.25	1	190.499	191.2	+0.37	± 1.0	
254	254	254	0.15	0.15	0.15	0.5	57.146	57.30	+0.27	± 2.0	
254	254	254	0.25	0.25	0.25	0.5	95.268	95.80	+0.56	± 2.0	
254	254	254	0.5	0.5	0.5	0.5	190.45	192.60	+1.13	± 2.0	
254	254	254	0.15	0.15	0.15	0.8	91.447	91.7	+0.28	± 2.0	
254	254	254	0.25	0.25	0.25	0.8	152.406	152.5	+0.06	± 2.0	
254	254	254	0.5	0.5	0.5	0.8	304.79	304.7	-0.03	± 2.0	
254	254	254	6	6	6	0.5	2285.4	2273.4	-0.53	± 1.2	
254	254	254	5	5	5	0.5	1904.89	1900.1	-0.25	± 1.2	
254	254	254	2.5	2.5	2.5	0.5	952.41	954.1	+0.18	± 1.2	
254	254	254	1	1	1	0.5	380.95	384.4	+0.91	± 1.2	
254	254	254	0.5	0.5	0.5	0.5	190.49	192.0	+0.79	± 1.2	
254	254	254	6	6	6	0.8	3658.0	3664.4	+0.17	± 1.2	
254	254	254	5	5	5	0.8	3047.96	3052.6	+0.15	± 1.2	
254	254	254	2.5	2.5	2.5	0.8	1523.43	1523.2	-0.02	± 1.2	
254	254	254	1	1	1	0.8	609.50	609.8	+0.05	± 1.2	
254	254	254	0.5	0.5	0.5	0.8	304.799	304.7	-0.03	± 1.2	

P. V. Ambekar

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ELECTRICAL TESTING LABORATORY

Sr. No: 4200061400053
Date of Test: 03.07.2014

Test Report No.: TR/ETL/061/14-15
Page No.: 3 of 4

b. Polyphase meter With balanced load (Reactive Power)

Set Values							Std. reading (kVAR)	EUT reading (kVAR)	% Error measured	% Error allowed
Voltage (V)			Current (Amp)			SIN PHI				
R PH	Y PH	B PH	R PH	Y PH	B PH					
254	254	254	6	6	6	1	4572.0	4570.6	-0.03	± 2.0
254	254	254	5	5	5	1	3809.95	3809.5	-0.01	± 2.0
254	254	254	2.5	2.5	2.5	1	1904.99	1906.8	+0.10	± 2.0
254	254	254	1	1	1	1	762.0	763.2	+0.16	± 2.0
254	254	254	0.4	0.4	0.4	1	304.79	305.4	+0.20	± 2.5
254	254	254	0.25	0.25	0.25	1	190.49	191.1	+0.32	± 2.5
254	254	254	1	1	1	0.5	381.79	379.3	-0.65	± 2.5
254	254	254	0.5	0.5	0.5	0.5	190.5	189.6	-0.47	± 2.5
254	254	254	6	6	6	0.5	2286.5	2295.6	+0.40	± 2.0
254	254	254	5	5	5	0.5	1905.05	1909.8	+0.25	± 2.0
254	254	254	2.5	2.5	2.5	0.5	952.41	949.8	-0.27	± 2.0
254	254	254	6	6	6	0.25	1143.7	1151.7	+0.70	± 2.5
254	254	254	5	5	5	0.25	952.74	954.8	+0.22	± 2.5
254	254	254	2.5	2.5	2.5	0.25	476.21	472.5	-0.78	± 2.5
254	254	254	1	1	1	0.25	190.53	187.5	-1.59	± 2.5

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ELECTRICAL TESTING LABORATORY

Sr. No.: 4200061400053
Date of Test: 03.07.2014

Test Report No.: TR/ETL/061/14-15
Page No.: 4 of 4

c. **Voltage Variation (IS 14697 Cl. No. 11.2)**

Set Values						COS PHI	Std. reading (kW)	EUT reading (kW)	% Error measured
Voltage			Current						
R PH	Y PH	B PH	R PH	Y PH	B PH				
204	204	204	5	5	5	1	3060.0	3061.2	+0.04
292	292	292	5	5	5	1	4379.7	4380.3	+0.01

d. **Starting Current (IS 14697 Cl. No. 11.5)**

Voltage (V)			Current (Amp)		
R PH	Y PH	B PH	R PH	Y PH	B PH
254	254	254	0.105	0.105	0.105

*** END OF TEST REPORT***

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