



# COMFORT INSTA-POWER LTD.

Works: Plot no.275-276, GIDC Estate,  
Anjar- Kutch- Gujarat- India  
Ph# 02836- 325565 Telefax # 02836-242776  
Visit us at : [www.comfortinstapower.com](http://www.comfortinstapower.com)  
e.mail : [info@comfortinstapower.com](mailto:info@comfortinstapower.com)

## TEST RESULT SHEET

Customer : M/s. Jay Jalaram Brick Works, Godhra  
Order No. & Date : Nil dated 28.03.2010  
Rating : 400 KVA, 11/0.433 KV  
Date : 01.05.10  
Sr.No. : IP-100  
1) Room Temperature °C : 37.5

2) Measurements of no load current, no load loss, impedance voltage and load loss:

Open circuit test at 433 Volts			Short circuit test at 21 Amperes on Tap # 3		
Current in Amperes	Wattmeter Reading (W1 – W2) x R	Losses in Watts	Voltage in Volts	Wattmeter Reading (W1 – W2) x R	Losses in Watts
8.60	(635 – 445) x 4	760	465	(350 – 60) x 20	5800

3) Resistance measurement at ambient temperature:

	L.V. (in milliohms)		H.V. (in ohms) on Tap # 3	
Between 2U2V :	5.87		1U1V :	4.27
Between 2V2W :	5.92		1V1W :	4.28
Between 2W2U :	5.96		1W1U :	4.27

4) Insulation resistance measurement:

L.V. to H.V. :	2300	Mohms.
H.V. to Earth :	2000	Mohms
L.V. to Earth :	1500	Mohms.

5) Ratio measurement:

Tap position	1	2	3	4	5
Nominal	46.20	45.10	44.00	42.90	41.80
U phase	46.22	45.12	44.01	42.91	41.81
V phase	46.22	45.12	44.01	42.91	41.81
W phase	46.28	45.19	44.08	42.98	41.88

Polarity test: Checked and found O.K.

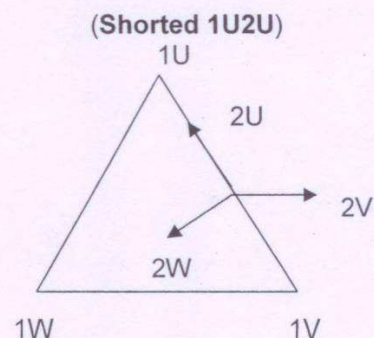
6) Vector group relationship test

Supply voltage:

1U1V =	402	Volts
1V1W =	395	Volts
1W1U =	398	Volts

Measured voltage:

1V2V =	382	Volts
1V2W =	382	Volts
1W2V =	394	Volts
1W2W =	379	Volts



Here, 1V2V = 1V2W and 1W2V > 1W2W. Hence vector group is Dyn11.





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### 7) Magnetic unbalance test:

440 Volts supplied between	Voltage measured between			Result
	2U2N	2V2N	2W2N	
1U1V	10.02	7.91	2.13	$2V2N + 2W2N \cong 2U2N$
1V1W	5.38	9.43	3.11	$2U2N + 2W2N \cong 2V2N$
1W1U	2.24	6.36	9.82	$2U2N + 2V2N \cong 2W2N$

Conclusion: There is no magnetic imbalance found.

### 8) Following tests are carried on the Transformer:

Power frequency test on primary at 28KV & secondary at 3 KV  
Induced over voltage test at 0.866 KV & 100 Hz.

- Withstood for 1 minute.  
- Withstood for 1 minute.

For Comfort Insta Power Limited

*Nirav Patel*

(Nirav Patel)

For Ace Consultancy

*Vikram Shah*

(Vikram Shah)

*Subject to provision of  
HTCB before despatch.*