



# COMFORT INSTA-POWER LTD.

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ISO 9001:2008

## TRANSFORMER TESTING & INSPECTION REPORT

NAME & ADDRESS OF CUSTOMER: M3 INFRASTRUCTURE BENTONITE BHUI (P) LTD., Moti Bhadai, Mandvi, Kutch	DATE: 18/12/2012	
	Party's P.O. No.:	Date:
	Continual Rating: 1000 KVA	Nominal Voltage Ratio(HV/LV) : 11000/433 Volts
	IS Reference:	2026 of 1977 with latest amendments
Winding: Copper	Tappings at	5.0 to +5.0 in step of 2.5 % of primary variations
Full load current(HV): 26.24 Amps.	Serial No: IP-170	Frequency: 50 Hz.
	Full load current (LV): 133.33 Amps.	Cooling: ONAN

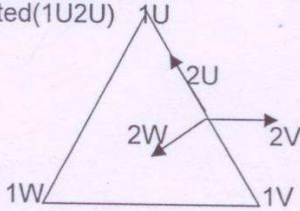
TESTS	MEASURED VALUE	GUARANTEED VALUES (Subject to IS tolerance)
No load loss	970 Watts at 433 Volts & 50 C/s	1100 Watts
No load current	0.6 % = 7.99 Amps. at 433 Volts & 50 C/s	---- %
Load loss	8976 Watts at 52.48 Amps. & 75°	9000 Watts
Impedance	4.40 % = 481 Volts at 52.484 Amps. & 75°	4.75 %
Winding Resistance per phase at 32°	HV Winding: 0.932 Ohms at Tap No: 3 LV Winding : 1.234 Miliohms	

Induced over voltage withstand test at 2 X rated voltage at 100/C/s for one minute: Withstood

Pressure Tests withstand at 32°	HV to LV & Earth LV to HV & Earth	23 KV 3 KV	for one minute: WITHSTOOD for one minute: WITHSTOOD
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Insulation Resistance Tests at 32°	HV to LV : HV to Earth : LV to Earth :	Above 2000 Mohms Above 2000 Mohms Above 2000 Mohms
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Vector Group test  
Shorted(1U2U)



U1V1 : 400 Volts  
V1W1 : 400 Volts  
W1U1 : 396 Volts  
V1V2 : 387 Volts  
V1W2 : 386 Volts  
W1W2 : 385 Volts  
1W V2 : 400 Volts  
As V1V2 = V1W2 and  
W1V2 > W1W2 Vector  
Group is DY - 11

RATIO TEST at + - 5% , + - 2.5% & NORMAL.

TAP NO.	1	2	3	4	5
Std.	46.20	45.10	44.00	42.90	41.80
U	46.27	45.16	44.05	42.91	41.89
V	46.19	45.06	43.94	42.87	41.79
W	46.23	45.12	43.98	42.92	41.84

No load voltage	TAP # 1	TAP # 2	TAP # 3	TAP # 4	TAP # 5	LV
	11550 V	11275 V	11000 V	10725 V	10450 V	433 V

Temperature Rise not exceeding	In Oil : 50°	HV Winding : 45° LV Winding : 55°
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LOAD	100 %	75 %	50 %	25 %	Polarity Test found: OK.
Efficiency at UPF %	98.80	99.01	99.20	99.36	
Efficiency at 0.8 PF%	98.50	98.76	99.00	99.20	

Regulation at Full Load and (1) UPF: 1.42 % (2) 0.8 PF: 3.44 %

NOTE : RADIATORS TO BE REPLACED BY 900X520X 9 FINS 4 NOS WITH DETACHABLE FLANGE AS EXISTING IS 900X300X 8 FINS 4 NOS.

For M3 INFRASTRUCTURE BENTONITE BHUI (P) LTD.,

Mr.Hasmukh Vora,

Mr.Alpesh Rathod,

Mr.Kamlesh Brijlani, for Bentontech Solutions

for Comfort Insta-Power Ltd.,

*(Signature)*  
Authorised Signature