



# Balaji Control

(NABL APPROVED LABORATORY)

LAB-CUM-OFFICE : 33Ft. Sewer Road,  
Near Gochhi Mode, Subzi Mandi Pulla,  
Sanjay Colony, Sector-23, Faridabad  
PH. : 0129-2440040, Mobile : 9310039120  
9312185620, 9312251108, 9899236922  
E-MAIL : balajicontrol@yahoo.co.in  
balajicontrol1@gmail.com



## CALIBRATION CERTIFICATE

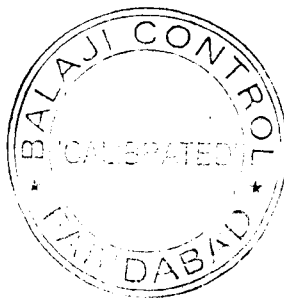
Certificate No. : BC/56590/2010		Page No. - 1 of 1	
Calibrated For	M/s. Rashi Cables Pvt. Ltd. (Unit - II) G- 731, RIICO Industrial Area, Phase-II; Bhiwadi (Raj.)	Calibrated on	18.02.2010
		Calibration Valid upto	17.02.2011

Description of Sample			
Nomenclature	Double Kelvin Bridge	Make	Maxwell
Range	0.2 $\mu$ - 11 Ohm	Location	-----
Resolution/L.C	0.2 $\mu$ Ohm	Serial No./ Model No.	1790
Calibration Procedure No.	BC/CP/13	Party I/D Mark No.	-----
Environmental Conditions	Temperature = 25 $\pm$ 4 $^{\circ}$ C Humidity = 50 $\pm$ 20 %	Test Purpose	Resistance Measurement
Calibration Performed At	Lab	Reference Standard	IS : 1248
		BC I/D Mark No.	-----

Master Equipment / Standard Used						
S.N.	Nomenclature	Make	S.No./ I/D Mark	Calibrated By	Certificate No.	Calibration Valid upto
1	Std. Res. Box	IE/SR-4A	431	Calibration Solutions	CS/4413/2	13.06.2011

Results			
S.N.	Nominal Value in $\Omega$	Actual Observed Value in $\Omega$	Error in $\Omega$
1	0.001	0.0012	0.0002
2	0.010	0.0104	0.0004
3	0.100	0.1004	0.0004
4	1.000	0.9998	-0.0002
5	10.000	9.9996	-0.0004

Uncertainty of Measurement ( at approximately 95 % Confidence Level with Coverage Factor k = 2 ) =  $\pm$  1 % of range.



*Ashish Tiwary*  
Calibrated By : Ashish Tiwary  
Designation : Calibration Engineer

*Sandeep Gupta*  
Approved By : Sandeep Gupta  
Designation : Quality Manager

- Conditions : 1. The certificate refer's only to the particular item(s) submitted for calibration.  
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Calibrated For	M/s. Rashi Cables Pvt. Ltd. (Unit - II) G- 731, -RIICO Industrial Area, Phase- II; Bhiwadi (Raj.)	Calibrated on	18.02.2010
		Calibration Valid upto	17.02.2011

Instrument Details			
Nomenclature	Thermometer	Make	Amit Scientific Ins.
Range	0 - 300° C	Location	Hot Set Oven
Resolution/L.C	0.1 ° C	Model No./ Serial No.	----
Calibration Procedure No.	BC/CP/13	Party I/D Mark No.	----
Environmental Conditions	Temperature = 25 ± 4° C Humidity = 50 ± 20 %	Type	J Type
Calibration Performed At	Lab.	Reference Standard	2057: 1962
		BC I/D Mark No.	----

Master Equipment / Standard Used						
S.N.	Nomenclature	Make	S.No./ I/D Mark	Calibrated By	Certificate No.	Calibration Valid upto
1	RTD Sensor	Acryon	201	ETDC, Jaipur	810060	07.05.2010
2	Universal Calibrator	Radix	290760	EMC Kolkata	EMC/BC/01/07/2009	30.06.2011

Calibration Results in °C			
S.N.	UUC Value	Observed Value	Error
1	50.0	50.0	0.0
2	100.0	99.9	-0.1
3	150.0	149.9	-0.1
4	200.0	199.8	-0.2
5	250.0	249.9	-0.1
6	300.0	299.8	-0.2

Uncertainty of Measurement ( at approximately 95 % Confidence Level with Coverage Factor k = 2 ) = ± 1.28 Deg.C



*Ashish Tiwary*  
Calibrated By : Ashish Tiwary  
Designation : Calibration Engineer

*Hardeep Gupta*  
Approved By : Hardeep Gupta  
Designation : Quality Manager

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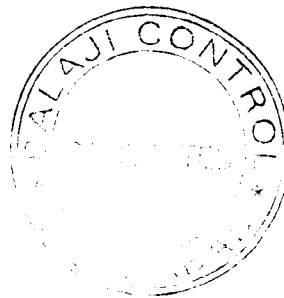
Certificate No. : BC/56592/2010		Page No. - 1 of 1	
Calibrated For	M/s. Rashi Cables Pvt. Ltd. (Unit - II) G- 731, RIICO Industrial Area, Phase- II; Bhiwadi (Raj.)	Calibrated on	18.02.2010
		Calibration Valid upto	17.02.2011

Description of Sample			
Nomenclature	Thermometer	Make	Gera
Range	-10 to +110 ° C	Location	-----
Resolution/L.C	0.5 ° C	Serial No.	250
Calibration Procedure No.	BC/CP/13	Party I/D Mark No.	-----
Environmental Conditions	Temperature = 25 ± 4° C Humidity = 50 ± 20 %	Test Purpose	Temperature Measurement
Calibration Performed At	Lab.	Reference Standard	2057: 1962
		BC I/D Mark No.	-----

Master Equipment / Standard Used						
S.N.	Nomenclature	Make	S.No./ I/D Mark	Calibrated By	Certificate No.	Calibration Valid upto
1	Universal Calibrator	Radix	290760	EMC Kolkata	EMC/BC/01/07/2009	30.06.2011
2	RTD Sensor	Acryon	201	ETOC Jaipur	810060	05.05.2010

Results In °C			
S.N.	UUC Value	Actual Observed Value	Error
1	20.0	20.0	0.0
2	40.0	40.1	-0.1
3	60.0	60.2	-0.2
4	80.0	80.3	-0.3
5	100.0	100.5	-0.5

Uncertainty of Measurement ( at approximately 95 % Confidence Level with Coverage Factor K = 2 ) = ± 1.28°C



Ashish Tiwary  
Calibrated By : Ashish Tiwary  
Designation : Calibration Engineer

Approved By: Sandeep Gupta  
Designation: Quality Manager

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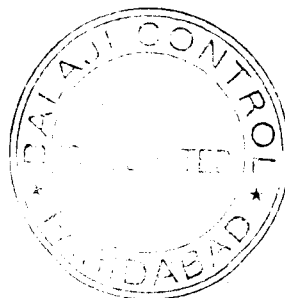
Certificate No. : BC/56593/2010		Page No. - 1 of 1	
Calibrated For	M/s. Rashi Cables Pvt. Ltd. (Unit - II) G- 731, RIICO Industrial Area, Phase- II; Bhiwadi (Raj.)	Calibrated on	18.02.2010
		Calibration Valid upto	17.02.2011

Description of Sample			
Nomenclature	Std. Resistance Box	Make	Sigma
Range	1m, 10 m, 100 mΩ, 1, 10, 100Ω, 1KΩ	Location	----
Resolution / L.C	-----	Serial No./ Model no.	010617
Calibration Procedure No.	BC/CP/21	Party I/D Mark No.	-----
Environmental Conditions	Temperature = 25 ± 4° C Humidity = 50 ± 20 %	Test Purpose	Resistance Measurement
Calibration Performed At	Lab	Reference Standard	IS : 1248
		BC I/D Mark No.	-----

Master Equipment / Standard Used						
S.N.	Nomenclature	Make	S.No./ I/D Mark	Calibrated By	Certificate No.	Calibration Valid upto
1	Dig. Multimeter	Fluke	9670002/8845A	ETDC, Jaipur	910154 @	28.05.2011

Results			
S.N.	Indicated Value on UUC in Ohm	Actual Observed Value on STD in Ohm	Error in Ohm
1	0.001	0.002	-0.001
2	0.01	0.04	-0.03
3	0.10	0.12	-0.02
4	1.00	1.04	-0.04
5	10.0	10.15	-0.15
6	100.0	100.17	-0.17
7	1.0 K	1.9 K	0.9 K

Uncertainty of Measurement ( at approximately 95 % Confidence Level with Coverage Factor K = 2 ) = ± 1 % of range.



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Designation : Calibration Engineer

Approved By : Sandeep Gupta  
Designation : Quality Manager

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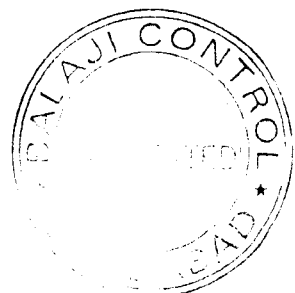
Certificate No. : BC/56594/2010		Page No. - 1 of 1	
Calibrated For	M/s. Rashi Cables Pvt. Ltd. (Unit - II) G- 731, RIICO Industrial Area, Phase- II; Bhiwadi (Raj.)	Calibrated on	18.02.2010
		Calibration Valid upto	17.02.2011

Description of Sample			
Nomenclature	HV Mega Ohm Box	Make	Sigma
Range	2,20,200 M,1,2 GOhm	Location	-----
Resolution/L.C	-----	Serial No.	3109
Calibration Procedure No.	BC/CP/21	Party I/D Mark No.	-----
Environmental Conditions	Temperature = 25 ± 5 Deg. C Humidity = 50 ± 20 %	Test Purpose	Resistance Measurement
Calibration Performed At	Lab.	Reference Standard	IS : 1248
		BC I/D Mark No.	-----

Master Equipment / Standard Used						
S.N.	Nomenclature	Make	S.No./ I/D Mark	Calibrated By	Certificate No.	Calibration Valid upto
1	Dig. Multimeter	Fluke	9670002/8845A	ETDC, Jaipur	910154 ®	28.05.2011

Results			
S.N.	Indicated Value on UUC in M Ω	Actual Observed Value on STD in M Ω	Error in M Ω
1	2.0	2.03	-0.03
2	20.0	20.07	-0.07
3	200.0	200.13	-0.13
4	1000.0	1001.15	-1.15
5	2000.0	2002.29	-2.29

Uncertainty of Measurement ( at approximately 95 % Confidence Level with Coverage Factor K = 2 ) = ± 1 % of range.



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Designation : Calibration Engineer

Approved By : Man Deep Gupta  
Designation : Quality Manager

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Certificate No. : BC/56595/2010		Page No. - 1 of 1	
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		Calibration Valid upto	17.02.2011

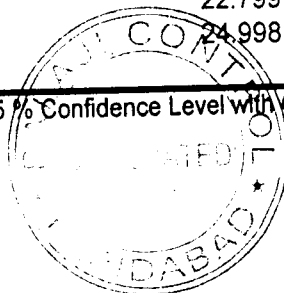
Description of Sample			
Nomenclature	Digital Micrometer	Make	Mitutoyo
Range	0 - 25 mm	Location	-----
Resolution/L.C	0.001mm	Serial No./ Model No.	32719
Calibration Procedure No.	BC/CP/01	Party I/D Mark No.	-----
Environmental Conditions	Temperature = $20 \pm 2^\circ \text{C}$ < 70 % R.H	Test Purpose	Dimension Measurement
Calibration Performed At	Lab	Reference Standard	IS:2967-1983
		BC I/D Mark No.	-----

Master Equipment / Standard Used						
S.N.	Nomenclature	Make	S.No./ I/D Mark	Calibrated By	Certificate No.	Calibration Valid upto
1	Steel Gauge block s	KCP	740	KCP Instruments	KCP/01/09-10/182	17.05.2011

Results			
S.N.	Nominal Value in mm	Actual Observed Value in mm	Error in mm
1	1.00	1.000	0.000
2	1.01	1.010	0.000
3	1.02	1.020	0.000
4	1.05	1.050	0.000
5	1.10	1.100	0.000
6	1.50	1.500	0.000
7	2.50	2.500	0.000
8	5.10	5.100	0.000
9	7.70	7.700	0.000
10	10.20	10.200	0.000
11	12.80	12.800	0.000
12	15.00	15.000	0.000
13	22.80	22.799	-0.001
14	25.00	24.998	-0.002

Uncertainty of Measurement ( at approximately 95 % Confidence Level with Coverage Factor  $k = 2$  ) =  $\pm 0.007$ mm.

Ashish Tiwary  
Calibrated By : Ashish Tiwary  
Designation : Calibration Engineer



Approved By : Sandeep Gupta  
Designation : Quality Manager

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## CALIBRATION CERTIFICATE

Certificate No. : BC/56596/2010		Page No. - 1 of 1	
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		Calibration Valid upto	17.02.2011

Description of Sample			
Nomenclature	Digital Vernier Caliper	Make	Mitutoyo
Range	0 - 150 mm	Location	-----
Resolution/L.C	0.01 mm	Serial No.	2569139
Calibration Procedure No.	BC/CP/02	Party I/D Mark No.	-----
Environmental Conditions	Temperature = 20 ± 2 ° C Humidity = 50 ± 20 %	Test Purpose	Dimension Measurement
Calibration Performed At	Laboratory	Reference Standard	IS:3651-1985
		BC I/D Mark No.	-----

Master Equipment / Standard Used						
S.N.	Nomenclature	Make	S.No./ I/D Mark	Calibrated By	Certificate No.	Calibration Valid upto
1	Caliper Cheaker	KCP	739	KCP Instruments	KCP/05/09-10/183	24.05.2011

Results							
S. No	Nominal Value in mm	Actual observed value in mm					
		External	Error	Internal	Error	Depth	Error
1	20.00	20.00	0.00	20.00	0.00	20.00	0.00
2	50.00	50.00	0.00	50.00	0.00	50.00	0.00
3	100.00	100.00	0.00	100.00	0.00	100.00	0.00
4	150.00	149.99	-0.01	150.01	0.01	150.01	0.01

Uncertainty of Measurement (at approximately 95 % Confidence Level with Coverage Factor k = 2) = ± 0.024mm.



*Ashish Tiwary*  
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Designation : Quality Manager

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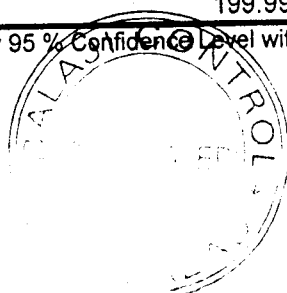
Certificate No. : BC/56597/2010		Page No. - 1 of 1	
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		Calibration Valid upto	17.02.2011

Description of Sample			
Nomenclature	Chemical Balance	Make	Dhona
Range	0 - 200 Gms	Location	----
Resolution/L.C	0.1 mgm	Serial No./ Model No.	----
Calibration Procedure No.	BC/CP/15	Party I/D Mark No.	----
Environmental Conditions	Temperature = 25 ± 4 Deg. C Humidity = 50 ± 20 %	Test Purpose	Weight Measurement
Calibration Performed At	On Site	Reference Standard	OIML - 111
		BC I/D Mark No.	----

Master Equipment / Standard Used						
S.N.	Nomenclature	Make/ Material	S.No./ I/D Mark	Calibrated By	Certificate No.	Calibration Valid upto
1	Weight Box	Weightronic	BC/SWB/01	WMCL	WMCL/M/2008/29	05.03.2011

Results			
S.N.	Nominal Value in gms	Actual Observed Value in gms	Error in gms
1	0.01	0.0098	-0.0002
2	0.02	0.0203	0.0003
3	0.05	0.0505	0.0005
4	0.10	0.1002	0.0002
5	0.20	0.1994	-0.0006
6	0.50	0.5004	0.0004
7	1.00	1.0006	0.0006
8	2.00	2.0013	0.0013
9	5.00	5.0012	0.0012
10	10.00	9.9991	-0.0009
11	20.00	19.9995	-0.0005
12	50.00	49.9944	-0.0056
13	100.00	99.9923	-0.0077
14	200.00	199.9911	-0.0089

Uncertainty of Measurement ( at approximately 95 % Confidence Level with Coverage Factor K = 2 ) = ± 10 mgm .



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