










Non-Transferable

CONFORMITY OF PRODUCTION CERTIFICATE AS PER AIS – 037											
CONFORMITY OF PRODUCTION CERTIFICATE											
SHL No: SHL/16/2023-2024/3000030854/COP/3824		DATE: 17.08.2023									
1.0	Name and Address of Applicant	M/s. URAVI T & WEDGE LAMPS LTD. Q-6, Rajlaxmi Techno Park, Nasik Bhiwandi Bypass, Sonale Village, Bhiwandi, Thane - 421 302.									
2.0	Customer Letter ref.	E-mail dated 05.06.2023									
3.0	Name and Address of Component Manufacturer	Same as above									
4.0	Name and specification of the component	Automobile Filament Lamp (Refer Annexure I enclosed)									
5.0	Applicable Notified Standard	AIS:034 (Part 1) (Rev.1)									
6.0	Base Type Approval No.	Refer Annexure I enclosed									
7.0	Marking on the sample										
8.0	Conformity of Production serial no.										
9.0	Conformity of Production Granted / Refused	<b>GRANTED</b>									
<b>Based on -</b>											
1.	Continued compliance to the Quality system was successfully verified during the CoP visit conducted on 10 <sup>th</sup> July 2023 and having CoP audit report no. SHL/16/2023-2024/3000030854/OTH/3823 dated 16.08.2023.										
2.	Successful completion of Conformity of Production tests on randomly selected samples during site visit. Test results enclosed in Annexure-II										
<table border="1"> <thead> <tr> <th>PREPARED BY</th> <th>VERIFIED BY</th> <th>AUTHORISED BY</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td><b>D. R. PATIL DEPUTY MANAGER</b></td> <td><b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b></td> <td><b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b></td> </tr> </tbody> </table>			PREPARED BY	VERIFIED BY	AUTHORISED BY				<b>D. R. PATIL DEPUTY MANAGER</b>	<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>	<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>
PREPARED BY	VERIFIED BY	AUTHORISED BY									
											
<b>D. R. PATIL DEPUTY MANAGER</b>	<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>	<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>									

An ISO 9001, ISO 14001, ISO 45001 and ISO/IEC 27001 Certified Organization

**CONFORMITY OF PRODUCTION CERTIFICATE**



**SHL No. : SHL/16/2023-2024/3000030854/COP/3824**

**10.0** **Next continued compliance to be completed on and before: 30.09.2025**

**Disclaimer:**

1. ARAI issues 'Conformity of Production (CoP) Certificates' for vehicles/ components/ parts/ assemblies etc. based on the documents produced and /or testing carried out on the selected sample(s) as per the provisions of specific rules.
2. Sample selection procedure is in compliance to Motor Vehicle Act/ Central Motor Vehicles Rules and their provisions as amended from time to time or any other statutory orders under which ARAI is authorized. Other Rules/ Acts are outside the purview/ scope of CoP.
3. Test/s on selected sample(s) is/ are carried out only on the parameters as covered under the specific procedures/ rules. Results of such tests are the property of bearer of CoP Certificate. These results cannot be disclosed unless specifically so ordered by Government, Court, etc.
4. Other parameters of the vehicles/ components/ parts/ assemblies etc. are outside the purview/ scope of CoP
5. The bearer of the CoP certificate is under obligation to ensure production strictly as per the provisions of the specific certificate.
6. ARAI is not responsible for ensuring manufacturing quality of the approved vehicles/ components/ parts/ assemblies etc.
7. ARAI is in no way responsible for any misuse or copying of any design/ type/ system in connection with entire vehicle/ components/ parts and assemblies covered under the CoP certificate.
8. Breach of any statutory provision of Indian laws or laws of other countries, will be the sole responsibility of the bearer of CoP certificate and ARAI shall not be liable for any claims or damages. The bearer shall alone be liable for the same, and shall undertake to indemnify ARAI in this regard.
9. ARAI has the right, but not under obligation, to initiate cancellation/ withdrawal of the certificate issued, in case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of ARAI.

**The appropriate local courts at Pune shall have the jurisdiction in respect of any dispute, claim or liability arising out of this certificate / Report.**




PREPARED BY	VERIFIED BY	AUTHORISED BY
		
<b>D. R. PATIL DEPUTY MANAGER</b>	<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>	<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>
<b>Place: Kothrud, Pune</b>		



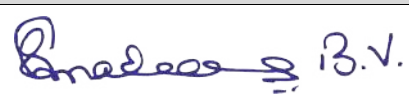





**CONFORMITY OF PRODUCTION CERTIFICATE**

**Annexure – I**

**SHL No. : SHL/16/2023-2024/3000030854/COP/3824**

Sr. No.	Filament Lamp Category	E-Mark No.	TAC No.	Addendum	COP Serial No.
1	12W10W	Nil	A92689	Nil	7
2	12W16W	E4 2Z1	A92690	01	7
3	12W3W	E4 2AB	A92691	01	7
4	12W5W	E4 2YL	A92692	02	7
5	12WY16W	E4 0057	A92693	01	7
6	12WY5W	Nil	A92694	Nil	7
7	12R10W	E4 2B5	AA2427	01	7
8	12P21W	E4 2B7	AA2428	01	7
9	12P21/5W	E4 2B9	AA2429	01	7
10	12R5W	E4 2D0	AA2506	01	7
11	12RY10W	E4 2B6	AB1206	01	6
12	12PY21W	E4 2B8	AB1207	01	6
13	12R10/5W	Nil	AC0480	Nil	6
14	12WY10W	E4 0050	AM1373	01	2
<b>PREPARED BY</b>		<b>VERIFIED BY</b>		<b>AUTHORISED BY</b>	
					
<b>D. R. PATIL DEPUTY MANAGER</b>		<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>		<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>	

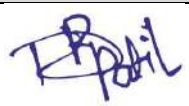

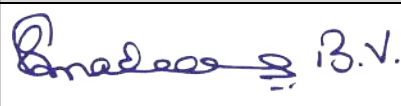
CONFORMITY OF PRODUCTION CERTIFICATE					
Annexure – II					
SHL No. : SHL/16/2023-2024/3000030854/COP/3824					
<b>1.0</b>	<b>NAME AND ADDRESS OF THE CUSTOMER</b>		M/s. URAVI T & WEDGE LAMPS LTD. Q-6, Rajlaxmi Techno Park, Nasik Bhiwandi Bypass, Sonale Village, Bhiwandi, Thane - 421 302.		
	<b>Details of component manufacturing plant address</b>		Same as above		
<b>2.0</b>	<b>CUSTOMER LETTER REF.</b>		Email dated 05.06.2023		
<b>3.0</b>	<b>DESCRIPTION OF TEST COMPONENTS:</b>				
	<b>Sr. No.</b>	<b>Automobile Lamp</b>	<b>Cap</b>	<b>Category</b>	<b>ARAI TAC No.</b>
	1	12V-3W	W2.1x9.5d	12W3W	A92691
	2	12V-5W	W2.1x9.5d	12W5W	A92692
	3	12V-10W	W2.1x9.5d	12W10W	A92689
	4	12V-10W	W2.1x9.5d	12WY10W	AM1373
	5	12V-16W	W2.1x9.5d	12W16W	A92690
	6	12V-10W	BA15s	12R10W	AA2427
	7	12V-10W	BAU15s	12RY10W	AB1206
	8	12V-21W	BA15s	12P21W	AA2428
	9	12V-10/5W	BAY15d	12R10/5W	AC0480
	10	12V-21/5W	BAY15d	12P21/5W	AA2429
<b>4.0</b>	<b>TEST OBJECTIVE, PROCEDURE &amp; REQUIREMENTS:</b>		<b>TEST TEST</b> To conduct the CoP tests as defined in AIS 037 on randomly selected samples during continued compliance audit as per AIS:034 (Part 1)(Rev.1)		
<b>5.0</b>	<b>TEST RESULTS:</b>		Please refer test results in Annexure III.		
<b>5.1</b>	<b>TEST DURATION :</b>		Start Date: 17.07.2023	End Date: 04.08.2023	
<b>PREPARED BY</b>		<b>VERIFIED BY</b>		<b>AUTHORISED BY</b>	
					
<b>D. R. PATIL DEPUTY MANAGER</b>		<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>		<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>	

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SHL No. : SHL/16/2023-2024/3000030854/COP/3824		
<b>5.2</b>	<b>Automobile Lamps: 12W3W</b>	
	<b>Test</b>	<b>Test Requirements</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark
		Trade Name: "UVAL" Rated voltage and wattage: "12V-3W" Category: "12W3W" TAC No.: "A92691" E- Mark: "E4 2AB" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.
		<b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of white colour bulb.
		Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. <b>Satisfactory</b>
	<b>Dimensional test</b>	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element
		Refer 5.2.A below <b>Satisfactory</b>
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5 Power: 3.45W max. Luminous Flux: 22 ± 30%
		Refer 5.2.B below <b>Satisfactory</b>
<b>PREPARED BY</b>		<b>VERIFIED BY</b>
		
<b>D. R. PATIL DEPUTY MANAGER</b>		<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>
		<b>AUTHORISED BY</b>
		
		<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>

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**Annexure – II**




**SHL No. : SHL/16/2023-2024/3000030854/COP/3824**

<b>5.2.A</b>	<b>Dimensional test results: 12W3W</b>							
	<b>Dimension in mm</b>	<b>Sample no.</b>					<b>Remark</b>	
	<b>Requirement As per std</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>		
	e	12.7 ± 1.5	12.47	12.52	12.50	12.61	12.64	Satisfactory
	Lateral Deviation	1.5 max	0.14	0.21	0.11	0.07	0.18	Satisfactory
	β	0° ± 15°	03°	03°	02°	03°	02°	Satisfactory
	Cap	W2.1x9.5d in accordance with IEC 60061-1					Satisfactory	
<b>5.2.B</b>	<b>Initial Electrical and Luminous Test: 12W3W</b>							
	<b>Bulb Id. No.</b>	<b>Power (W)</b>		<b>Luminous Flux (Lumen)</b>		<b>Remark</b>		
		<b>Required</b>	<b>Measured</b>	<b>Required</b>	<b>Measured</b>			
	1	3.45 max.	3.15	22 ± 30% (15.4 to 28.6)	21.5	Satisfactory		
	2		3.15		20.4	Satisfactory		
	3		3.21		21.2	Satisfactory		
	4		3.16		20.4	Satisfactory		
	5		3.28		23.5	Satisfactory		
<b>PREPARED BY</b>		<b>VERIFIED BY</b>			<b>AUTHORISED BY</b>			
								
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**Annexure – II**

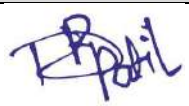


**SHL No. : SHL/16/2023-2024/3000030854/COP/3824**

<b>5.3</b>	<b>Automobile Lamps: 12W5W</b>		
	<b>Test</b>	<b>Test Requirements</b>	<b>Observations / Results</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark	Trade Name: "UVAL" Rated voltage and wattage: "12V-5W" Category: "12W5W" TAC No.: "A92692" E- Mark: "E4 2YL" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.	No scores or spots observed. <b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of white colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. <b>Satisfactory</b>
	<b>Dimensional test</b>	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element	Refer 5.3.A below <b>Satisfactory</b>
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5 Power: 5.5W max. Luminous Flux: 50 ± 20%	Refer 5.3.B below <b>Satisfactory</b>
<b>PREPARED BY</b>		<b>VERIFIED BY</b>	<b>AUTHORISED BY</b>
			
<b>D. R. PATIL DEPUTY MANAGER</b>		<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>	<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>




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<b>5.3.A</b>	<b>Dimensional test results: 12W5W</b>							
	Dimension in mm		Sample no.					Remark
		Requirement As per std	1	2	3	4	5	
	e	12.7 ± 1.5	12.80	12.91	12.76	13.05	12.70	Satisfactory
	Lateral Deviation	1.0 max	0.28	0.33	0.47	0.11	0.28	Satisfactory
	β	0° ± 15°	03°	02°	02°	03°	03°	Satisfactory
	Cap	W2.1x9.5d in accordance with IEC 60061-1						Satisfactory
<b>5.3.B</b>	<b>Initial Electrical and Luminous Test: 12W5W</b>							
	Bulb Id. No.	Power (W)		Luminous Flux (Lumen)		Remark		
		Required	Measured	Required	Measured			
	1	5-5 max.	4.85	50 ± 20% (40 to 60)	48.3	Satisfactory		
	2		4.68		45.3	Satisfactory		
	3		4.76		50.6	Satisfactory		
	4		4.90		49.7	Satisfactory		
	5		4.83		47.9	Satisfactory		
<b>PREPARED BY</b>		<b>VERIFIED BY</b>			<b>AUTHORISED BY</b>			
								
<b>D. R. PATIL DEPUTY MANAGER</b>		<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>			<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>			



CONFORMITY OF PRODUCTION CERTIFICATE		
Annexure – II		
SHL No. : SHL/16/2023-2024/3000030854/COP/3824		
<b>5.4</b>	<b>Automobile Lamps: 12W10W</b>	
	<b>Test</b>	<b>Test Requirements</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark
		<b>Observations / Results</b>
		Trade Name: "UVAL" Rated voltage and wattage: "12V-10W" Category: "12W10W" TAC No.: "A92689" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.
		<b>Observations / Results</b>
		No scores or spots observed. <b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of white colour bulb.
		<b>Observations / Results</b>
		Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. <b>Satisfactory</b>
	<b>Dimensional test</b>	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element
		<b>Observations / Results</b>
		Refer 5.4.A below <b>Satisfactory</b>
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5 Power: 11W max. Luminous Flux: 125 ± 20%
		<b>Observations / Results</b>
		Refer 5.4.B below <b>Satisfactory</b>
<b>PREPARED BY</b>		<b>VERIFIED BY</b>
		
<b>D. R. PATIL DEPUTY MANAGER</b>		<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>
		<b>AUTHORISED BY</b>
		
		<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>

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**5.4.A Dimensional test results: 12W10W**

	Dimension in mm		Sample no.					Remark
	Requirement As per std		1	2	3	4	5	
e	17 ± 1.5		17.29	17.55	17.36	17.62	17.40	Satisfactory
Lateral Deviation	1.0 max		0.21	0.17	0.40	0.42	0.26	Satisfactory
β	0° ± 15°		02°	04°	03°	03°	02°	Satisfactory
Cap	W2.1x9.5d in accordance with IEC 60061-1							Satisfactory

**5.4.B Initial Electrical and Luminous Test: 12W10W**




Bulb Id. No.	Power (W)		Luminous Flux (Lumen)		Remark
	Required	Measured	Required	Measured	
1	11 max.	10.15	125 ± 20% (100 to 150)	120.3	Satisfactory
2		10.08		117.9	Satisfactory
3		10.14		123.2	Satisfactory
4		10.13		120.2	Satisfactory
5		10.26		127.2	Satisfactory

PREPARED BY	VERIFIED BY	AUTHORISED BY
		
<b>D. R. PATIL</b> DEPUTY MANAGER	<b>Mrs. J. M. KIRVE</b> DEPUTY DIRECTOR	<b>DR. B. V. SHAMSUNDARA</b> DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory

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**SHL No. : SHL/16/2023-2024/3000030854/COP/3824**

<b>5.5</b>	<b>Automobile Lamps: 12WY10W</b>		
	<b>Test</b>	<b>Test Requirements</b>	<b>Observations / Results</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark	Trade Name: "UVAL" Rated voltage and wattage: "12V-10W" Category: "12WY10W" TAC No.: "AM1373" E- Mark: "E4 0050" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.	No scores or spots observed. <b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of Amber colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of Amber colour lamp. <b>Satisfactory</b>
	<b>Dimensional test</b>	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element	Refer 5.5.A below <b>Satisfactory</b>
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5 Power: 11W max. Luminous Flux: 75 ± 20%	Refer 5.5.B below <b>Satisfactory</b>
<b>PREPARED BY</b>		<b>VERIFIED BY</b>	<b>AUTHORISED BY</b>
			
<b>D. R. PATIL DEPUTY MANAGER</b>		<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>	<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>

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**SHL No. : SHL/16/2023-2024/3000030854/COP/3824**

<b>5.5.A</b>	<b>Dimensional test results: 12WY10W</b>							
	<b>Dimension in mm</b>	<b>Sample no.</b>					<b>Remark</b>	
	<b>Requirement As per std</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>		
	e	17 ± 1.5	17.27	17.34	17.18	17.21	17.12	Satisfactory
	Lateral Deviation	1.0 max	0.28	0.41	0.40	0.32	0.43	Satisfactory
	β	0° ± 15°	03°	02°	03°	02°	02°	Satisfactory
	Cap	W2.1x9.5d in accordance with IEC 60061-1					Satisfactory	
<b>5.5.B</b>	<b>Initial Electrical and Luminous Test: 12WY10W</b>							
	<b>Bulb Id. No.</b>	<b>Power (W)</b>		<b>Luminous Flux (Lumen)</b>		<b>Remark</b>		
		<b>Required</b>	<b>Measured</b>	<b>Required</b>	<b>Measured</b>			
	1	11 max.	10.19	75 ± 20% (60 to 90)	66.6	Satisfactory		
	2		10.13		70.0	Satisfactory		
	3		10.19		71.6	Satisfactory		
	4		10.18		69.1	Satisfactory		
	5		10.15		71.6	Satisfactory		
<b>PREPARED BY</b>		<b>VERIFIED BY</b>			<b>AUTHORISED BY</b>			
								
<b>D. R. PATIL DEPUTY MANAGER</b>		<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>			<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>			

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**SHL No. : SHL/16/2023-2024/3000030854/COP/3824**

<b>5.6</b>	<b>Automobile Lamps: 12W16W</b>		
	<b>Test</b>	<b>Test Requirements</b>	<b>Observations / Results</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark	Trade Name: "UVAL" Rated voltage and wattage: "12V-16W" Category: "12W16W" TAC No.: "A92690" E- Mark: "E4 2Z1" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.	No scores or spots observed. <b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of white colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. <b>Satisfactory</b>
	<b>Dimensional test</b>	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element	Refer 5.6.A below <b>Satisfactory</b>
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5 Power: 21.35W max. Luminous Flux: 310 ± 20%	Refer 5.6.B below <b>Satisfactory</b>
	<b>PREPARED BY</b>	<b>VERIFIED BY</b>	<b>AUTHORISED BY</b>
			
	<b>D. R. PATIL DEPUTY MANAGER</b>	<b>Mrs. J. M. KIRVE DEPUTY DIRECTOR</b>	<b>DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory</b>

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<b>5.6.A</b>	<b>Dimensional test results: 12W16W</b>							
	<b>Dimension in mm</b>	<b>Sample no.</b>					<b>Remark</b>	
	<b>Requirement As per std</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>		
	e	20.6 ± 2.3	21.10	20.81	21.05	21.11	20.92	Satisfactory
	Lateral Deviation	1.0 max	0.48	0.57	0.43	0.37	0.50	Satisfactory
	β	0° ± 15°	03°	04°	03°	02°	03°	Satisfactory
	Cap	W2.1x9.5d in accordance with IEC 60061-1					Satisfactory	
<b>5.6.B</b>	<b>Initial Electrical and Luminous Test: 12W16W</b>							
	<b>Bulb Id. No.</b>	<b>Power (W)</b>		<b>Luminous Flux (Lumen)</b>		<b>Remark</b>		
		<b>Required</b>	<b>Measured</b>	<b>Required</b>	<b>Measured</b>			
	1	21.35 max.	20.44	310 ± 20% (248 to 372)	296.4	Satisfactory		
	2		20.55		296.2	Satisfactory		
	3		20.52		296.1	Satisfactory		
	4		20.84		299.1	Satisfactory		
	5		20.64		301.6	Satisfactory		
<b>PREPARED BY</b>		<b>VERIFIED BY</b>			<b>AUTHORISED BY</b>			
								
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<b>5.7</b>	<b>Automobile Lamps: 12R10W</b>		
	<b>Test</b>	<b>Test Requirements</b>	<b>Observations / Results</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark	Trade Name: "UVAL" Rated voltage and wattage: "12V-10W" Category: "12R10W" TAC No.: "AA2427" E- Mark: "E4 2B5" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.	No scores or spots observed. <b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of white colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. <b>Satisfactory</b>
	<b>Dimensional test</b>	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element	Refer 5.7.A below <b>Satisfactory</b>
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5 Power: 11W max. Luminous Flux: 125 ± 20%	Refer 5.7.B below <b>Satisfactory</b>
<b>PREPARED BY</b>		<b>VERIFIED BY</b>	<b>AUTHORISED BY</b>
			
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**5.7.A Dimensional test results: 12R10W**

	Dimension in mm		Sample no.					Remark
	Requirement As per std		1	2	3	4	5	
e	19 ± 1.5		19.29	19.15	19.42	19.38	19.31	Satisfactory
Lateral Deviation	1.5 max		0.20	0.33	0.15	0.21	0.38	Satisfactory
β	90° ± 30°		87°	92°	94°	88°	92°	Satisfactory
Cap	BA15s in accordance with IEC 60061-1						Satisfactory	

**5.7.B Initial Electrical and Luminous Test: 12R10W**

Bulb Id. No.	Power (W)		Luminous Flux (Lumen)		Remark
	Required	Measured	Required	Measured	
1	11 max.	10.57	125 ± 20% (100 to 150)	121.4	Satisfactory
2		10.61		117.5	Satisfactory
3		10.57		117.5	Satisfactory
4		10.58		120.6	Satisfactory
5		10.57		120.4	Satisfactory




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<b>5.8</b>	<b>Automobile Lamps: 12RY10W</b>		
	<b>Test</b>	<b>Test Requirements</b>	<b>Observations / Results</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark	Trade Name: "UVAL" Rated voltage and wattage: "12V-10W" Category: "12RY10W" TAC No.: "AB1206" E- Mark: "E4 2B6" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.	No scores or spots observed. <b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of Amber colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of Amber colour lamp. <b>Satisfactory</b>
	<b>Dimensional test</b>	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element	Refer 5.8.A below <b>Satisfactory</b>
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5 Power: 11W max. Luminous Flux: 75 ± 20%	Refer 5.8.B below <b>Satisfactory</b>
<b>PREPARED BY</b>		<b>VERIFIED BY</b>	<b>AUTHORISED BY</b>
			
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**5.8.A Dimensional test results: 12RY10W**

Dimension in mm	Requirement As per std	Sample no.					Remark
		1	2	3	4	5	
e	19 ± 1.5	19.34	19.11	19.18	19.23	19.21	Satisfactory
Lateral Deviation	1.5 max	0.41	0.22	0.18	0.28	0.17	Satisfactory
β	90° ± 30°	88°	92°	91°	89°	93°	Satisfactory
Cap	BAU15s in accordance with IEC 60061-1						Satisfactory

**5.8.B Initial Electrical and Luminous Test: 12RY10W**




Bulb Id. No.	Power (W)		Luminous Flux (Lumen)		Remark
	Required	Measured	Required	Measured	
1	11 max.	10.18	75 ± 20% (60 to 90)	71.8	Satisfactory
2		10.13		73.4	Satisfactory
3		10.02		71.6	Satisfactory
4		10.10		71.7	Satisfactory
5		10.07		70.6	Satisfactory

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<b>5.9</b>	<b>Automobile Lamps: 12P21W</b>		
	<b>Test</b>	<b>Test Requirements</b>	<b>Observations / Results</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark	Trade Name: "UVAL" Rated voltage and wattage: "12V-21W" Category: "12P21W" TAC No.: "AA2428" E- Mark: "E4 2B7" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.	No scores or spots observed. <b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of white colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. <b>Satisfactory</b>
	<b>Dimensional test</b>	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element	Refer 5.9.A below <b>Satisfactory</b>
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5 Power: 26.5W max. Luminous Flux: 460 ± 15%	Refer 5.9.B below <b>Satisfactory</b>
<b>PREPARED BY</b>		<b>VERIFIED BY</b>	<b>AUTHORISED BY</b>
			
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**5.9.A Dimensional test results: 12P21W**

	Dimension in mm		Sample no.					Remark
	Requirement As per std		1	2	3	4	5	
e	31.8 nom		31.94	32.04	32.11	31.96	32.05	Satisfactory (Measured as per Screen projection requirement)
f	7.0 max		6.28	6.32	6.38	6.31	6.37	Satisfactory
Lateral Deviation	1.5 max		0.24	0.15	0.34	0.14	0.23	Satisfactory (Measured as per Screen projection requirement)
$\beta$	$90^\circ \pm 15^\circ$		$92^\circ$	$87^\circ$	$88^\circ$	$92^\circ$	$93^\circ$	Satisfactory
Cap	BA15s in accordance with IEC 60061-1						Satisfactory	

**5.9.B Initial Electrical and Luminous Test: 12P21W**




Bulb Id. No.	Power (W)		Luminous Flux (Lumen)		Remark
	Required	Measured	Required	Measured	
1	26.5 max.	25.73	460 ± 15% (391 to 529)	424.7	Satisfactory
2		25.65		421.9	Satisfactory
3		25.72		420.7	Satisfactory
4		25.66		426.3	Satisfactory
5		25.74		428.2	Satisfactory

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<b>5.10</b>	<b>Automobile Lamps: 12R10/5W</b>		
	<b>Test</b>	<b>Test Requirements</b>	<b>Observations / Results</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark	Trade Name: "UVAL" Rated voltage and wattage: "12V-10/5W" Category: "12R10/5W" TAC No.: "AC0480" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.	No scores or spots observed. <b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of white colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. <b>Satisfactory.</b>
	<b>Dimensional test</b>	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element	Refer 5.10.A below <b>Satisfactory</b>
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5V Power: Main Filament: 11W max. Auxiliary Filament: 6.6W max. Luminous Flux: Main Filament: 125 ± 20% lumen Auxiliary Filament: 26 ± 20% lumen	Refer 5.10.B below <b>Satisfactory</b>
<b>PREPARED BY</b>		<b>VERIFIED BY</b>	<b>AUTHORISED BY</b>
			
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**5.10. A Dimensional test results: 12R10/5W**




	Dimension in mm		Sample no.					Remark
		Requirement As per std	1	2	3	4	5	
e	31.8 nom	31.91	31.87	31.88	31.93	31.92	Satisfactory (Measured as per Screen projection requirement)	
f	7 max	4.42	4.40	4.42	4.42	4.42	Satisfactory	
Lateral Deviation	0	0.41	0.21	0.13	0.27	0.33	Satisfactory (Measured as per Screen projection requirement)	
x	2.8 nom	(Measured as per Screen projection requirement)					Satisfactory	
y	2.8 nom	(Measured as per Screen projection requirement)					Satisfactory	
$\beta$	$90^\circ \pm 15^\circ$	$87^\circ$	$89^\circ$	$93^\circ$	$91^\circ$	$92^\circ$	Satisfactory	
Cap	BAY15d in accordance with IEC 60061-1						Satisfactory	
<b>PREPARED BY</b>		<b>VERIFIED BY</b>			<b>AUTHORISED BY</b>			
								
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**5.10. B Initial Electrical and Luminous Test: 12R10/5W**

Bulb Id. No.	Power (W)				Remark
	Main Filament		Auxiliary Filament		
	Required	Measured	Required	Measured	
1	11 W max.	10.15	6.6 W max.	6.20	Satisfactory
2		10.34		6.09	Satisfactory
3		10.23		6.13	Satisfactory
4		10.17		6.17	Satisfactory
5		10.38		6.07	Satisfactory
Bulb Id. No.	Luminous Flux (Lumen)				Remark
	Main Filament		Auxiliary Filament		
	Required	Measured	Required	Measured	
1	125 ± 20% (100 to 150)	130.2	26 ± 20% (20.8 to 31.2)	30.1	Satisfactory
2		120.6		30.0	Satisfactory
3		123.4		30.2	Satisfactory
4		125.9		29.8	Satisfactory
5		124.5		30.1	Satisfactory
PREPARED BY		VERIFIED BY		AUTHORISED BY	
					
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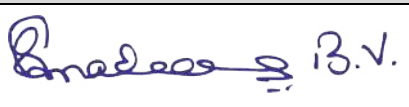
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<b>5.11</b>	<b>Automobile Lamps: 12P21/5W</b>		
	<b>Test</b>	<b>Test Requirements</b>	<b>Observations / Results</b>
	<b>Marking</b>	Each sample shall be distinctly and indelibly marked with: Trade Name or mark of manufacturer, Rated voltage and wattage, Category, TAC Mark	Trade Name: "UVAL" Rated voltage and wattage: "12V-21/5W" Category: "12P21/5W" TAC No.: "AA2429" E- Mark: "E4 2B9" <b>Satisfactory</b>
	<b>Bulb Quality (5.1.3 of AIS 034)</b>	Filament lamp bulbs and gas discharge light sources shall exhibit no scores or spots, which might impair their efficiency and their optical performance.	No scores or spots observed. <b>Satisfactory</b>
	<b>Colour</b>	All the five samples shall meet the requirement of white colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. <b>Satisfactory.</b>
	<b>Dimensional test</b>	External Lamp Dimensions	Refer 5.11.A below <b>Satisfactory</b>
		Dimensions of caps and bases	
		Dimensions related to internal element	
	<b>Initial Electrical and Luminous Performance</b>	Test Voltage: 13.5V Power: Main Filament: 26.5W max. Auxiliary Filament: 6.6W max. Luminous Flux: Main Filament: 440 ± 15% lumen Auxiliary Filament: 35 ± 20% lumen	Refer 5.11.B below <b>Satisfactory</b>
<b>PREPARED BY</b>		<b>VERIFIED BY</b>	<b>AUTHORISED BY</b>
			
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<b>5.11. A</b>	<b>Dimensional test results: 12P21/5W</b>							
	<b>Dimension in mm</b>		<b>Sample no.</b>				<b>Remark</b>	
	<b>Requirement As per std</b>		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>5</b>
	e	31.8 nom	31.78	31.86	31.69	31.77	31.83	Satisfactory (Measured as per Screen projection requirement)
	f	7.0 max	6.14	5.98	5.89	5.92	6.08	Satisfactory
	Lateral Deviation	0	0.30	0.41	0.13	0.09	0.21	Satisfactory (Measured as per Screen projection requirement)
	x	2.8 nom	(Measured as per Screen projection requirement)				Satisfactory	
	y	2.8 nom	(Measured as per Screen projection requirement)				Satisfactory	
	$\beta$	$90^\circ \pm 15^\circ$	$92^\circ$	$94^\circ$	$95^\circ$	$97^\circ$	$93^\circ$	Satisfactory
	Cap	BAY15d in accordance with IEC 60061-1-					Satisfactory	
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<b>5.11. B</b>	<b>Initial Electrical and Luminous Test: 12P21/5W</b>				
<b>Bulb Id. No.</b>	<b>Power (W)</b>				<b>Remark</b>
	<b>Main Filament</b>		<b>Auxiliary Filament</b>		
	<b>Required</b>	<b>Measured</b>	<b>Required</b>	<b>Measured</b>	
1	26.5 W max.	25.29	6.6 W max.	5.94	Satisfactory
2		26.04		5.97	Satisfactory
3		25.65		6.06	Satisfactory
4		26.20		6.02	Satisfactory
5		25.73		6.02	Satisfactory
<b>Bulb Id. No.</b>	<b>Luminous Flux (Lumen)</b>				<b>Remark</b>
	<b>Main Filament</b>		<b>Auxiliary Filament</b>		
	<b>Required</b>	<b>Measured</b>	<b>Required</b>	<b>Measured</b>	
1	440 ± 15% (374 to 506)	430.8	35 ± 20% (28 to 42)	36.5	Satisfactory
2		489.8		31.0	Satisfactory
3		474.8		34.4	Satisfactory
4		499.3		36.8	Satisfactory
5		459.6		35.4	Satisfactory
<b>PREPARED BY</b>		<b>VERIFIED BY</b>		<b>AUTHORISED BY</b>	
					
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