

(Research Institute of the Automotive Industry with Ministry of Heavy Industries, Govt. of India)

Non-Transferable

	CONFORMITY OF PRODUCTION CERTIFICATE AS PER AIS – 037							
	CONFORMITY OF PRODUCTION CERTIFICATE							
SHL No	o: SHL/16/2023-2024/3000	030854/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 0	5.06.2023				
3.0	Name and Address of Manufacturer	Component	Same as abov	e				
4.0	Name and specification	n of the component	Automobile File	ament Lamp (Refer Annexure I enclosed)				
5.0	Applicable Notified Sta	indard	AIS:034 (Part	1) (Rev.1)				
6.0	Base Type Approval N	0.						
7.0	Marking on the sample	1	Refer Annexure I enclosed					
8.0	Conformity of Product	ion serial no.	FML					
9.0	Conformity of Product Granted / Refused	ion	GRANTED					
Based	on -							
1.	-		-	rerified during the CoP visit conducted on 023-2024/3000030854/OTH/3823 dated				
2.	Successful completion of Test results enclosed in		tion tests on ran	domly selected samples during site visit.				
	PREPARED BY	VERIFIED	BY	AUTHORISED BY				
Epstil mile Colors			Bradace & B.V.					
D. R. PATIL Mrs. J. M. K DEPUTY MANAGER DEPUTY DIRI			DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory					

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



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	SHL No. : SHL/16/2023-2024/3000030854/COP/3824								
10.0	Next continued compliance to be completed on and before: 30.09.2025								
Disclain	ner:								
1.		duction (CoP) Certificates' for vehicles/ compone sting carried out on the selected sample(s) as pe							
2.			Vehicles Rules and their provisions as amended Other Rules/ Acts are outside the purview/ scope of						
3.		/ are carried out only on the parameters as cover earer of CoP Certificate. These results cannot be	ed under the specific procedures/ rules. Results of disclosed unless specifically so ordered by						
4.	Other parameters of the vehicle	es/ components/ parts/ assemblies etc. are outsid	e the purview/ scope of CoP						
5.	The bearer of the CoP certificat	e is under obligation to ensure production strictly	as per the provisions of the specific certificate.						
6.	ARAI is not responsible for ensu	uring manufacturing quality of the approved vehic	les/ components/ parts/ assemblies etc.						
7.	ARAI is in no way responsible for parts and assemblies covered up		tem in connection with entire vehicle/ components/						
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.		er obligation, to initiate cancellation/ withdrawal or aces and comes in the knowledge of ARAI.	the certificate issued, in case of any fraud,						
	ropriate local courts at Pune sl te / Report.	hall have the jurisdiction in respect of any dis	pute, claim or liability arising out of this						
	PREPARED BY	VERIFIED BY	AUTHORISED BY						
	TAPAIL	tore.							
D	D. R. PATIL DEPUTY MANAGER Mrs. J. M. KIRVE DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR DEPUTY DIRECTOR								
Place:	lace: Kothrud, Pune Laboratory								
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	Progress through Research 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	NI	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				
	PREPARED BY	VERIFIED BY	,	AUTHO	RISED BY				
	ERAN	Store		Bradeos	<u> </u>				
D	D. R. PATIL EPUTY MANAGER	Mrs. J. M. KIRV DEPUTY DIRECT	/E	DR. B. V. SI DEPUTY In Charge-Safety	HAMSUNDARA / DIRECTOR / and Homologation oratory				



	CONFORMITY OF PRODUCTION CERTIFICATE								
	Annexure – II								
	SHL No. : SHL/16/2023-2024/3000030854/COP/3824								
1.0 NAME AND ADDRESS OF THE CUSTOMER			E	M/s. URAVI T & WEDGE LAMPS LTD. Q-6, Rajlaxmi Techno Park, Nasik Bhiwandi Bypass, Sonale Village, Bhiwandi, Thane - 421 302.					
		s of component manufa address	acturing	Same as	above				
2.0	сизто	OMER LETTER REF.		Email dat	ted 05.06.2023				
3.0	DESC	RIPTION OF TEST CON	IPONENTS	•					
	Sr. No.	Automobile Lamp	Ca	р	Categor	у	ARAI TAC No.		
	1	12V-3W	W2.1x	9.5d	12W3W	_=	A92691		
	2	12V-5W	W2.1x	9.5d	12W5W	1	A92692		
	3	12V-10W	W2.1x	9.5d	12W10W		A92689		
	4	12V-10W	W2.1x	9.5d	12WY10W		AM1373		
	5	12V-16W	W2.1x	9.5d	12W16W		A92690		
	6	12V-10W	BA1	5s	12R10W		AA2427		
	7	12V-10W	BAU	15s 12RY10W		v	AB1206		
	8	12V-21W	BA1	5s	12P21W		AA2428		
	9	12V-10/5W	BAY1	l5d	12R10/5W		AC0480		
	10	12V-21/5W	BAY1	l5d	12P21/5W		AA2429		
4.0	PROCI	OBJECTIVE, TEST EDURE & TEST REMENTS:					S 037 on randomly selected s per AIS:034 (Part 1)(Rev.1)		
5.0	TEST	RESULTS:	Please ref	er test res	ults in Annexur	e III.			
5.1 TEST DURATION :			Star	t Date: 17.	07.2023		End Date: 04.08.2023		
	PREPARED BY			VERIFIED	ВҮ		AUTHORISED BY		
	TRAN			totare.		Bre	2000 g B.V.		
D. R. PATIL DEPUTY MANAGER				rs. J. M. K PUTY DIRI			. B. V. SHAMSUNDARA DEPUTY DIRECTOR ge-Safety and Homologation Laboratory		



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Annexure – II									
	SHL No. : SHL/16/2023-2024/30000308	54/COP/3824							
5.2 Automobile Lan	nps: 12W3W								
Test	Test Requirements	Observations / Results							
Marking	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" Satisfactory							
Bulb Quality (5.1.3 of AIS 034)	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. Satisfactory							
Colour	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. Satisfactory							
Dimensional test	External Lamp Dimensions Dimensions of caps and bases Dimensions related to internal element	Refer 5.2.A below Satisfactory							
Initial Electrical and Luminous Performance	Test Voltage: 13.5 Power: 3.45W max. Luminous Flux: 22 ± 30%	Refer 5.2.B below Satisfactory							
PREPARED BY	VERIFIED BY	AUTHORISED BY							
ERAN	oci Etere.	Bradeos & B.V.							
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	Annexure – II							
	T	SHL	No. : SHL/16	6/2023-2	024/3000	03085	4/COP/3824	
5.2.A	Dimensional test results: 12W3W							
	Dimer	nsion in mm		\$	Sample no) .		-
		Requirement As per std	1	2	3	4	5	Remark
	е	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
	Сар	W2.1x9.5d in a	accordance wi	ith IEC 60	0061-1		ST M	Satisfactory
5.2.B	Initial Ele	ctrical and Lun	ninous Test:	12W3W			Z	
	Bulb Id.	Pov	ver (W)) Luminous Flux (Lumen)		(Lumen)	Remark	
	No.	Required	Measure	d	Required		Measured	
	1	-	3.15			5	21.5	Satisfactory
	2		3.15		$22 \pm 30\%$		20.4	Satisfactory
	3	3.45 max.	3.21	1 = 9	.4 to 28.6)		21.2	Satisfactory
	4		3.16				20.4	Satisfactory
	5		3.28	گ ا			23.5	Satisfactory
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	TERNIL .			Dona Stare.		Bras	1000 g 13.V.	
D. R. PATIL DEPUTY MANAGER			Mrs. J. M. KIRVE DEPUTY DIREC DEPUTY DIRECTOR In Charge-Safety and H			8. V. SHAMSUNDARA EPUTY DIRECTOR -Safety and Homologation Laboratory		



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	Annexure – II									
	SHL No. : SHL/16/2023-2024/3000030854/COP/3824									
5.3	Automobile Lar	mps: 12W	/5W							
	Test		Test Requ	uirements	Observations / Results					
	Marking	marked Trade N	with: ame or mark of i and wattage, Ca	distinctly and indelibly manufacturer, Rated tegory,	Trade Name: "UVAL" Rated voltage and wattage: "12V-5W" Category: "12W5W" TAC No.: "A92692" E- Mark: "E4 2YL" Satisfactory					
	Bulb Quality (5.1.3 of AIS 034)	sources	shall exhibit no npair their effic	nd gas discharge light scores or spots, which iency and their optical	No scores or spots observed. Satisfactory					
	Colour		ve samples shall lour bulb.	meet the requirement of	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. Satisfactory					
	Dimensional test	Dimensi	Lamp Dimensic ons of caps and ons related to in	bases	Refer 5.3.A below Satisfactory					
	Initial Electrical and Luminous Performance	Power:	tage: 13.5 5.5W max. ıs Flux: 50 ± 20%	6	Refer 5.3.B below Satisfactory					
	PREPARED BY	,	V	RIFIED BY	AUTHORISED BY					
	ERAN		W Colore .		Bradeos = 13.V.					
	D. R. PATIL DEPUTY MANAGER		Mrs. J. M. KIRVE DEPUTY DIRECTOR		DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory					
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	Annexure – II								
	SHL No. : SHL/16/2023-2024/3000030854/COP/3824								
5.3.A	Dimensio	nal test results	s: 12W5W						
	Dimer	nsion in mm		Ş	Sample no).			
		Requirement As per std	1	2	3	4	5	Remark	
	е	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	
	Сар	W2.1x9.5d in a	accordance w	ith IEC 60	0061-1		S-IM	Satisfactory	
5.3.B	Initial Ele	ctrical and Lur	ninous Test:	12W5W			1	-	
	Bulb Id.	Pov	ver (W)		Luminou	s Flux ((Lumen)	Remark	
	No.	Required	Measure	d	Required	N N	Measured		
	1		4.85		= 2	5	48.3	Satisfactory	
	2		4.68		50 ± 20%		45.3	Satisfactory	
	3	5-5 max.	4.76	= 9	40 to 60)		50.6	Satisfactory	
	4		4.90	, de la	,		49.7	Satisfactory	
	5		4.83	1 Star			47.9	Satisfactory	
	PREPAREI	N BV	THE .		BV		^		
	TERNIL .			VERIFIED BY		0	B.V.		
DI	D. R. PATIL DEPUTY MANAGER			Mrs. J. M. KIRVE DEPUTY DIRE DEPUTY DIRECTOR In Charge-Safety and			8. V. SHAMSUNDARA EPUTY DIRECTOR Safety and Homologation Laboratory		



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	SHL No. : SHL/16/2023-2024/3000030854/COP/3824								
5.4	Automobile Lar	nps: 12W	10W						
	Test		Test Requirements	Observations / Results					
	Marking	marked Trade Na	ame or mark of manufacturer, Rated and wattage, Category,	Trade Name: "UVAL" Rated voltage and wattage: "12V-10W" Category: "12W10W" TAC No.: "A92689" Satisfactory					
	Bulb Quality (5.1.3 of AIS 034)	sources	and bulbs and gas discharge light shall exhibit no scores or spots, which apair their efficiency and their optical ance.	No scores or spots observed. Satisfactory					
	Colour		e samples shall meet the requirement of our bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. Satisfactory					
	Dimensional test	Dimensi	Lamp Dimensions ons of caps and bases ons related to internal element	Refer 5.4.A below Satisfactory					
	Initial Electrical and Luminous Performance	Power:	tage: 13.5 11W max. s Flux: 125 ± 20%	Refer 5.4.B below Satisfactory					
	PREPARED BY	,	VERIFIED BY	AUTHORISED BY					
	ERAN		Jul Olare	Bradoos & B.V.					
I	D. R. PATIL DEPUTY MANAGI	ER	Mrs. J. M. KIRVE DEPUTY DIRECTOR	DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory					

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		SHL N	lo. : SHL/16/	/2023-2	024/3000	030854	/COP/3824	
5.4.A	Dimensio	nal test results	: 12W10W					
	Dimer	nsion in mm		Ş	Sample no	-		
		Requirement As per std	1	2	3	4	5	Remark
	е	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
	Сар	W2.1x9.5d in a	ccordance wit	th IEC 60	0061-1			Satisfactory
							- Sthi	
5.4.B	Initial Ele	ctrical and Lum	inous Test: ′	12W10W	1		SNO	
	Bulb Id.	Pow	ower (W) Luminous Flu		s Flux (Lumen)	Remark	
	No.	Required	Measured	i k	Required		leasured	Remark
	1		10.15				120.3	Satisfactory
	2		10.08	1	25 ± 20%	2	117.9	Satisfactory
	3	11 max.	10.14		100 to 150))	123.2	Satisfactory
	4		10.13		<i>,</i>		120.2	Satisfactory
	5		10.26				127.2	Satisfactory
		פע 📃			BV			
	PREPAREI	Al (VERIFIED BY		0	Dece & B.V.		
D. R. PATIL DEPUTY MANAGER				s. J. M. K JTY DIR			D	8. V. SHAMSUNDARA EPUTY DIRECTOR -Safety and Homologation Laboratory



	Annexure – II								
		SHL	No. : SHL/16/2023-2024/30000308	54/COP/3824					
5.5	5.5 Automobile Lamps: 12WY10W								
	Test		Test Requirements	Observations / Results					
	Marking	marked Trade Na	ame or mark of manufacturer, Rated and wattage, Category,	Trade Name: "UVAL" Rated voltage and wattage: "12V-10W" Category: "12WY10W" TAC No.: "AM1373" E- Mark: "E4 0050" Satisfactory					
	Bulb Quality (5.1.3 of AIS 034)	sources	t lamp bulbs and gas discharge light shall exhibit no scores or spots, which apair their efficiency and their optical ance.	No scores or spots observed. Satisfactory					
	Colour		ve samples shall meet the requirement r colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of Amber colour lamp. Satisfactory					
	Dimensional test	Dimensi	Lamp Dimensions ons of caps and bases ons related to internal element	Refer 5.5.A below Satisfactory					
	Initial Electrical and Luminous Performance	Power:	tage: 13.5 11W max. Is Flux: 75 ± 20%	Refer 5.5.B below Satisfactory					
	PREPARED BY	,	VERIFIED BY	AUTHORISED BY					
	ERAN		Otre.	Bradaos & B.V.					
	D. R. PATIL DEPUTY MANAG	ER	Mrs. J. M. KIRVE DEPUTY DIRECTOR	DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory					
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5.5.A	Dimensional test results: 12WY10W									
	Dimer	nsion in mm		5	Sample no	•				
		Requirement As per std	1	2	3	4	5	Remark		
	е	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 a	ccordance wi	th IEC 60	0061-1			Satisfactory		
							- Sth			
5.5.B	Initial Ele	ctrical and Lum	inous Test:	12WY10	w		SNG			
	Bulb Id.	Pow	er (W) Luminous Flux (Lume			Lumen)	Remark			
	No.	Required	Measured	d I	Required	Ň	leasured	Keinark		
	1		10.19			<u></u>	66.6	Satisfactory		
	2	-	10.13		75 ± 20%		70.0	Satisfactory		
	3	11 max.	10.19		60 to 90)		71.6	Satisfactory		
	4	-	10.18		2		69.1	Satisfactory		
	5		10.15				71.6	Satisfactory		
	PREPAREI	ר BV		ERIFIED	RV		۸	UTHORISED BY		
	TR	AIL (Joch Stare				Bradaos & B.V.			
D. R. PATIL DEPUTY MANAGER			Mrs. J. M. KIRVE DEPUTY DIRECTOR				DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory			



	Annexure – II									
	SHL No. : SHL/16/2023-2024/3000030854/COP/3824									
5.6	5.6 Automobile Lamps: 12W16W									
	Test		Test Requirements		Observations / Results					
	Marking	marked Trade Na	ame or mark of manufacturer, land wattage, Category,	•	Trade Name: "UVAL" Rated voltage and wattage: "12V-16W" Category: "12W16W" TAC No.: "A92690" E- Mark: "E4 2Z1" Satisfactory					
	Bulb Quality (5.1.3 of AIS 034)	sources	: lamp bulbs and gas disch shall exhibit no scores or spo npair their efficiency and the ance.	ots, which	No scores or spots observed. Satisfactory					
	Colour		/e samples shall meet the requ lour bulb.	irement of	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. Satisfactory					
	Dimensional test	Dimensi	Lamp Dimensions ons of caps and bases ons related to internal element	- X 2	Refer 5.6.A below Satisfactory					
	Initial Electrical and Luminous Performance	Power:	tage: 13.5 21.35W max. s Flux: 310 ± 20%	S.S.	Refer 5.6.B below Satisfactory					
	PREPARED BY		VERIFIED BY		AUTHORISED BY					
	TERMI		tolere.		Bradeos & B.V.					
I	D. R. PATIL DEPUTY MANAG	ER	Mrs. J. M. KIRVE DEPUTY DIRECTO	र	DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory					
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	SHL No. : SHL/16/2023-2024/3000030854/COP/3824									
5.6.A	Dimensional test results: 12W16W									
	Dimer	nsion in mm		;	Sample no					
		Requirement As per std	1	2	3	4	5	Remark		
	е	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		
	Сар	W2.1x9.5d in a	ccordance w	ith IEC 6	0061-1			Satisfactory		
5.6.B	Initial Ele	ctrical and Lun	ninous Test:	12W16V	V		SND			
	Bulb Id.	Pow	er (W) Luminous Flux (Lumen)			Lumen)	Remark			
	No.	Required	Measure	d	Required		leasured	Keinark		
	1		20.44		-		296.4	Satisfactory		
	2		20.55	3	10 ± 20%	8	296.2	Satisfactory		
	3	21.35 max.	20.52		248 to 372))	296.1	Satisfactory		
	4		20.84		Ş		299.1	Satisfactory		
	5		20.64				301.6	Satisfactory		
	PREPAREI	אר		/ERIFIED) BY		^			
	TR	AIL .	JOCH Stare				Bradaos S B.V.			
DI	D. R. PA ⁻ Eputy Man		Mrs. J. M. KIRVE DEPUTY DIRECTOR				DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory			



	Annexure – II										
	SHL No. : SHL/16/2023-2024/3000030854/COP/3824										
5.7	5.7 Automobile Lamps: 12R10W										
	Test		Test Requirements	Observations / Results							
	Marking	marked Trade Na	ame or mark of manufacturer, Rated and wattage, Category,	Trade Name: "UVAL" Rated voltage and wattage: "12V-10W" Category: "12R10W" TAC No.: "AA2427" E- Mark: "E4 2B5" Satisfactory							
	Bulb Quality (5.1.3 of AIS 034)	sources	: lamp bulbs and gas discharge light shall exhibit no scores or spots, which apair their efficiency and their optical ance.	No scores or spots observed. Satisfactory							
	Colour		ve samples shall meet the requirement colour bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. Satisfactory							
	Dimensional test	Dimensi	Lamp Dimensions ons of caps and bases ons related to internal element	Refer 5.7.A below Satisfactory							
	Initial Electrical and Luminous Performance	Power:	tage: 13.5 11W max. s Flux: 125 ± 20%	Refer 5.7.B below Satisfactory							
	PREPARED BY	,	VERIFIED BY	AUTHORISED BY							
	TERMI		Olere.	Bradaos & B.V.							
	D. R. PATIL DEPUTY MANAG	ER	Mrs. J. M. KIRVE DEPUTY DIRECTOR	DR. B. V. SHAMSUNDARA DEPUTY DIRECTOR In Charge-Safety and Homologation Laboratory							
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	Annexure – II									
5.7.A	SHL No. : SHL/16/2023-2024/3000030854/COP/3824 5.7.A Dimensional test results: 12R10W									
5.7.A			. 12111000							
	Dimer	nsion in mm			Sample no	•		Remark		
		Requirement As per std	1	2	3	4	5	Nemark		
	е	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		
	Сар	BA15s in accor	dance with I	EC 60061	-1			Satisfactory		
5.7.B	Initial Ele	ctrical and Lum	inous Test:	12R10W			S NO			
	Bulb Id.	Pow	er (W) Luminous Flux (s Flux (Lumen)	Remark		
	No.	Required	Measure	d l	Required	N	leasured			
	1		10.57			<u></u>	121.4	Satisfactory		
	2		10.61	1	25 ± 20%	2	117.5	Satisfactory		
	3	11 max.	10.57		100 to 150))	117.5	Satisfactory		
	4		10.58		, ,		120.6	Satisfactory		
	5		10.57				120.4	Satisfactory		
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	Annexure – II									
	SHL No. : SHL/16/2023-2024/3000030854/COP/3824									
5.8	5.8 Automobile Lamps: 12RY10W									
	Test		Test Requireme	ents	Observations / Results					
	Marking	marked Trade Na	ame or mark of manufa and wattage, Category	acturer, Rated	Trade Name: "UVAL" Rated voltage and wattage: "12V-10W" Category: "12RY10W" TAC No.: "AB1206" E- Mark: "E4 2B6" Satisfactory					
	Bulb Quality (5.1.3 of AIS 034)	sources	: lamp bulbs and ga shall exhibit no score npair their efficiency ance.	es or spots, which	No scores or spots observed. Satisfactory					
	Colour		/e samples shall meet olour bulb.	the requirement of	Colour coordinates are measured for all the five samples. All the samples met the requirements of Amber colour lamp. Satisfactory					
	Dimensional test	Dimensi	Lamp Dimensions ons of caps and bases ons related to internal		Refer 5.8.A below Satisfactory					
	Initial Electrical and Luminous Performance	Power:	tage: 13.5 11W max. s Flux: 75 ± 20%	- PIE	Refer 5.8.B below Satisfactory					
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	SHL No. : SHL/16/2023-2024/3000030854/COP/3824									
5.8.A	Dimensional test results: 12RY10W									
	Dimer	nsion in mm		ę	Sample no					
		Requirement As per std	1	2	3	4	5	Remark		
	е	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		
	Сар	BAU15s in acc	ordance with l	IEC 6006	61-1			Satisfactory		
							- Sth	·		
5.8.B	Initial Ele	ctrical and Lum	ninous Test: ′	12RY10\	N		SNO			
	Bulb Id.	Pow	ower (W) Luminous Flux (Lumen)			Lumen)	Remark			
	No.	Required	Measured	l b	Required		leasured	Itemark		
	1		10.18		-		71.8	Satisfactory		
	2		10.13		75 ± 20%	8	73.4	Satisfactory		
	3	11 max.	10.02		50 to 90)		71.6	Satisfactory		
	4		10.10		· ·		71.7	Satisfactory		
	5		10.07				70.6	Satisfactory		
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	Annexure – II									
	SHL No. : SHL/16/2023-2024/3000030854/COP/3824									
5.9	5.9 Automobile Lamps: 12P21W									
	Test		Test Requirements	Observations / Results						
	Marking	marked Trade N	ame or mark of manufacturer, Rated and wattage, Category,	Trade Name: "UVAL" Rated voltage and wattage: "12V-21W" Category: "12P21W" TAC No.: "AA2428" E- Mark: "E4 2B7" Satisfactory						
	Bulb Quality (5.1.3 of AIS 034)	sources	t lamp bulbs and gas discharge ligh shall exhibit no scores or spots, whic npair their efficiency and their optica ance.	h Satisfactory						
	Colour		ve samples shall meet the requirement o lour bulb.	of Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. Satisfactory						
	Dimensional test	Dimensi	Lamp Dimensions ons of caps and bases ons related to internal element	Refer 5.9.A below Satisfactory						
	Initial Electrical and Luminous Performance	Power:	tage: 13.5 26.5W max. Is Flux: 460 ± 15%	Refer 5.9.B below Satisfactory						
	PREPARED BY	,	VERIFIED BY	AUTHORISED BY						
	TRAIL		fotore.	Bradaos & B.V.						
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	_	SHLN	No. : SHL/1	6/2023-2	024/3000	030854	4/COP/3824	
5.9.A	Dimensio	nal test results	: 12P21W					
	Dimer	nsion in mm		ę	Sample no) .		
		Requirement As per std	1	2	3	4	5	Remark
	е	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)
	β	90° ± 15°	92°	87°	88°	92°	93°	Satisfactory
	Сар	BA15s in acco	ordance with IEC 60061-1					Satisfactory
							4	
5.9.B	Initial Ele	ctrical and Lun	ninous Test:	: 12P21W	=	XAL		
	Bulb Id.	Pow	ver (W)		Luminous Flux (Lumen)		Lumen)	Remark
	No.	Required	Measure	ed	Required	? N	leasured	
	1		25.73	=_9	6		424.7	Satisfactory
	2	-	25.65		460 ± 15% (391 to 529)		421.9	Satisfactory
	3	26.5 max.	25.72				420.7	Satisfactory
	4		25.66		()	, 	426.3	Satisfactory
	5		25.74				428.2	Satisfactory
	PREPARED BY			VERIFIED BY				UTHORISED BY
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			Annexure – II								
		SHL	No. : SHL/16/2023-2024/3000030854	4/COP/3824							
5.10	5.10 Automobile Lamps: 12R10/5W										
	Test		Test Requirements	Observations / Results							
	Marking	marked Trade Na	ame or mark of manufacturer, Rated and wattage, Category,	Trade Name: "UVAL" Rated voltage and wattage: "12V- 10/5W" Category: "12R10/5W" TAC No.: "AC0480" Satisfactory							
	Bulb Quality (5.1.3 of AIS 034)	sources	lamp bulbs and gas discharge light shall exhibit no scores or spots, which apair their efficiency and their optical ance.	No scores or spots observed. Satisfactory							
	Colour		e samples shall meet the requirement of our bulb.	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. Satisfactory.							
	Dimensional	External	Lamp Dimensions	Refer 5.10.A below							
	test		ons of caps and bases	Satisfactory							
	Initial Electrical and Luminous Performance	Test Vol Power: Main Fila Auxiliary Luminou Main Fila	ament: 11W max. Filament: 6.6W max. s Flux: ament: 125 ± 20% lumen Filament: 26 ± 20% lumen	Refer 5.10.B below Satisfactory							
	PREPARED BY		VERIFIED BY	AUTHORISED BY							
	Esperil		De tore.	Bradaos & B.V.							
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5.10. A	A Dimensional test results: 12R10/5W										
	Dimen	ision in mm									
		Requirement As per std	1	2	3	4	5	Remark			
	е	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	(Me	easured as re	Satisfactory						
	у	2.8 nom	(Me	(Measured as per Screen projection requirement)				Satisfactory			
	β	90° ± 15°	87°	89°	93°	91	92°	Satisfactory			
	Сар	BAY15d in ac	cordance wit	h IEC 600	61-1	Lo.		Satisfactory			
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		SHL N	No. : SHL/16/20	23-2024/300003	0854/COP/3824		
5.10. B	Initial Ele	ctrical and Lu	ninous Test: 12	R10/5W			
			Powe	er (W)			
	Bulb Id. No.	Main F	ilament	Auxiliary	Filament	Remark	
		Required	Measured	Required	Measured		
	1		10.15		6.20	Satisfactory	
	2		10.34		6.09	Satisfactory	
	3	11 W max.	10.23	6.6 W max.	6.13	Satisfactory	
	4	-	10.17		6.17	Satisfactory	
	5		10.38		6.07	Satisfactory	
	Bulb Id.			Flux (Lumen)			
	No.	Main Fi	lament	Auxiliary Filament		Remark	
		Required	Measured	Required	Measured		
	1		130.2		30.1	Satisfactory	
	2	125 ± 20%	120.6	26 ± 20%	30.0	Satisfactory	
	3	$125 \pm 20\%$ (100 to 150)	123.4	$20 \pm 20\%$ (20.8 to 31.2)	30.2	Satisfactory	
	4	(100 10 100)	125.9		29.8	Satisfactory	
	5		124.5	=. S	30.1	Satisfactory	
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						4/202/2024					
	1	SHL	NO.: SHL/	16/2023-2024/30	00030854	4/COP/3824					
5.11	Automobile Lamps: 12P21/5W										
	Test		Test F	Requirements	Observations / Results						
	Marking	marked Trade Na voltage a TAC Ma	with: ame or mark and wattage, rk		Rated	Trade Name: "UVAL" Rated voltage and wattage: "12V- 21/5W" Category: "12P21/5W" TAC No.: "AA2429" E- Mark: "E4 2B9" Satisfactory					
	Bulb Quality (5.1.3 of AIS 034)	sources	shall exhibit	s and gas discha t no scores or spo efficiency and the	ts, which	No scores or spots observed. Satisfactory					
	Colour		/e samples s lour bulb.	hall meet the requi	Colour coordinates are measured for all the five samples. All the samples met the requirements of White colour lamp. Satisfactory.						
	Dimensional	External	Lamp Dime	nsions	Refer 5.11.A below						
	test		ons of caps a		Satisfactory						
	Initial Electrical	Dimensi	ons related t	o internal element							
	and Luminous PerformanceTest 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 Satisfactory					
	PREPARED BY			VERIFIED BY		AUTHORISED BY					
	ERAN	THE S	Otre.			Bradeos & B.V.					
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		SHL	No. : SHL/1	6/2023-2	024/3000	030854	/COP/3824				
5.11. A	Dimensional test results: 12P21/5W										
	Dimen	ision in mm		5	Sample no) .	1				
		Requiremen As per std	t 1	2	3	4	5	Remark			
	е	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	(Me	asured as	Satisfactory						
	у	2.8 nom	(Me	asured as	s per Scre equiremer		ection	Satisfactory			
	β	90° ± 15°	92°	94°	95°	97°	93°	Satisfactory			
	Сар	BAY15d in ac	ccordance wit	h IEC 600	61-1=	2		Satisfactory			
	PREPARED) BY		VERIFIED	BY		A	UTHORISED BY			
	T Bpi	<i>fi</i> l	Colore.				Brad	B.V.			
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		SHL N	lo. : SHL/16/202	23-2024/300003	0854/COP/3824		
5.11. B	Initial Ele	ectrical and Lun	ninous Test: 12F	21/5W			
	Bulb Id. No.	Main F	ilament	Auxiliary	Filament	Remark	
		Required	Measured	Required	Measured		
	1		25.29		5.94	Satisfactory	
	2		26.04		5.97	Satisfactory	
	3	26.5 W max.	25.65	6.6 W max.	6.06	Satisfactory	
	4		26.20		6.02	Satisfactory	
	5		25.73		6.02	Satisfactory	
	Bulb Id.		Luminous F	. ,			
	No.	Main Fi		-	Filament	Remark	
		Required	Measured	Required	Measured		
	1		430.8	- *	36.5	Satisfactory	
	2	440 ± 15%	489.8	35 ± 20%	31.0	Satisfactory	
	3	(374 to 506)	474.8	(28 to 42)	34.4	Satisfactory	
	4	· · ·	499.3		36.8	Satisfactory	
	5	4	459.6		35.4	Satisfactory	
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