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# **TEST REPORT**

# M/S TIIVRA VENTURES PVT LTD.

11, Manju Villa 246 Waterfield Rd, Bandra West Mumbai 400050

Sample Description

PROTECTIVE HELMET FOR TWO WHEELER RIDERS

Standard Follow

ECE R 22.05

Type

PROTECTIVE WITH LOWER FACE COVER WITH VISOR

Brand

TIIVRA

Model

: ALTEREGO

Size

60 cm

**Manufacturing Date** 

24/08/2022

Batch No.

: 12/ALTEREGO/2022

Material

NON - METALLIC

Report No.

DTRL/GEN/26082217230

ULR No.

TC741422000003412F

**Period of Testing** 

: 27/08/2022 to 31/08/2022

Date of Receipt

26/08/2022

Report Date

31/08/2022

This Report Contains 23 Pages In Total.

DTRL-2022-0727



Sunil Shukla Deputy Tech. Manager

Authorised Signatory

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Helmet Model Designation	Altergo	are built o	SIL DIE	RI BIRL
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Discipline : Mechanical Tests

Group : Performance/Durability/Safety Test

> Sunil Shukla Deputy Tech. Manager

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1. DTR	Markings	Clause 4 Sub-Clause 4.1	The protective helmets submitted for approval in conformity with paragraph 3.1 of this code shall bear:	Applicable	Yes
	DIGIL DYRL	Sub-Clause 4.1.1	On the helmet, the applicant's trade name or mark and an indication of the size and, if appropriate, an indication of the unsuitability of the lower face cover to offer any protection against impacts to the chin.	Present	Yes
	CONN. DARL	Sub-Clause 4.1.2	On the visor, the applicant's trade name or mark and, if appropriate, an indication of the unsuitability of the visor for use during the hours of darkness or in conditions of poor Visibility.	Present	DISC. DE LE
	CONTROL DIRECTOR OF THE CONTROL OF T	Sub-Clause 4.2	The visors submitted for approval in conformity with paragraph 3.2.of this code shall bear the applicant's trade name or mark and, if appropriate, an indication of the unsuitability of the visor for use during the hours of darkness or in conditions of poor visibility.	Present	PIRE YES TO THE PERSON OF THE
	L DESCRIPTION OF THE PARTY OF T	Sub-Clause 4.3	The marking shall not be placed within the main visibility area.	Satisfactory	Yes

Apelysed By

Sunil Shukla Deputy Tech. Manager

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	L TOTAL DIRL L OTAL DIRL L OTAL DIRL L DIRL DIRL	Sub-Clause 4.4	The marking shall be indelible, clearly legible and in readily accessible place.	Present	Yes
2.	General Specifications	Clause 6	DIRL DIVI, DIRL DIVI DIRL DIVI DIR DIRL DIVI DIRL AND DIRL DIVI OTRO	Refer to Clause 7.3	Yes
	E. FORE DIRECTOR OF THE CONTROL OF T	Sub-Clause 6.1	The basic construction of the helmet shall be in the form of a hard outer shell, containing additional means of absorbing impact energy, and a retention system.	(Satisfactory)	DEFORM TO A DEFORM
o Di	EL TOTAL DIRECTOR	Sub-Clause 6.2	The protective helmet may be fitted with ear flaps and a neck curtain. It may also have detachable peak, a visor and a lower face	Visor Fitted: Refer to Annex 1	
DI DI	CLITTE DIKE RESIDENCE CLITTE DIKE	OTRI, POR BURL OF STANDERS, DOMESTIC OF STANDERS, SON DIRECTOR	cover. If fitted with a non-protective lower face cover the outer surface of the cover shall be marked "Does not protect chin from	DERLING	
I DI	RE THE DTREET	DISCOURSE DISCOURSE DE LA COMPANION DE LA COMP	impacts" and/or with the symbol shown in figure 1 below indicating the unsuitability of the lower face	L 1991 DTRL 1793	
L DI	RL BLDTRL	THE DIEL THE DIEL OF	cover to offer any protection against impacts to the chin	L TYDE DIRL OF	
DI	RE THE DESI	DIRL DER DER DER	<b>A</b> ,	LOW OTH SAN LOW OUR SAN LOW OTR	DTRL DER
DI	RL THE DIFL RL THE DIFL	OTHE DIRE LAW DIRE	Figure 1: Symbol "Does not protect chin from impacts"	E WILL DIEL OF	

Sunil Shukla Tech. Manage Deputy

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DTHE OTHER	suppleme series of a (Including	ulation No.22, nt 3 to the 05 mendments Revision 4)	(As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)	Test Results	Conformity
DTALLARE I DOMESTICATE DOMESTICA	Sub-Claus	e 6.3  DTRL  DTRL  DTRL  DTRL  DTRL  DTRL  DTRL  DTRL	No component or device may be fitted to or incorporated in the protective helmet unless it is designed in such a way that it will not cause injury and that, when it is fitted to or incorporated in the protective helmet, the helmet still complies with the requirements of this Regulation.	No component or devices are fitted or incorporated that cause injury. (Satisfactory)	Yes
DOME WHAT I	Sub-Clause	e 6.4	The extent of the protection provided shall be as follows:	OFFIL OFFI DIRL SEE	
DTRE TOTAL DESIGNATION OF THE POPULATION OF THE	Sub-Clause	6.4.1 DIRECTION OF THE PARTY OF	The shell shall cover all areas above plane AA' and shall extend downwards at least as far as the lines CDEF on both sides of the head form.(See Annex 4, Figure 1A of the standard)	Shell covered all the area above 'AA' plane also covered CDEF lines on both sides.	Yes
DORL TO I	Sub-Clause	DIN DITEL OF BURE DE D	- Axis, situated at the intersection of the medium plane of symmetry of the head form and of a plane parallel to and 110 mm below the reference plane.	At the rear, the rigid parts and, in Particular, the shell is not within a cylinder of diameter 100mm and with axis situated at the intersection of the medium plane of symmetry of the head for and of a plane parallel to and 110mm below the reference plane. (Satisfactory)	Prince Yes
DIRL SING	Sub-Clause	DUM BERL	The protective padding shall cover all the areas defined in paragraph 6.4.1., account being taken of the requirements of paragraph 6.5.	Satisfactory	Yes

Sunil Shukla Deputy Tegh. Manage

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DIT	tests performed	(Method used for tests)  ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	(As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)	Test Results	Conformit
DIE	L DIR DIRL	Sub-Clause 6.5	The helmet shall not dangerously affect the wearer's ability to hear. The temperature in	Satisfactory	Yes
DE	LUNE DIRL	OF DERL TORK DIER DE	the space between the head and the shell shall not rise inordinately; to prevent this, ventilation holes may be provided in the shell.	Ventilation Holes present.	Yes
DIII	EL COM DIRE EL COM DIRE EL COM DIRE EL COM DIRE	OTHER DIRECTOR DIRECT	Where means for attaching a visor are not provided, the profile at the front edge shall not prevent the wearing of goggles.	DIRECTOR DIRECTOR	DIRL OVER DIRL OVER DIRL OVER DIRL OVER
DIR DIR DIR DIR DIR DIR	E FOO DINL E WAS DISC. L WAS DISC. L WAS DISC. E WAS DISC. E WAS DISC. E WAS DISC.	Sub-Clause 6.6	All projections from or irregularities in the outer surface of the shell greater than 2 mm shall be tested for shear assessment according to paragraphs 7.4.1. or 7.4.2.	Projection in the shell greater than 2mm present (Refer to clause 7.4.2)	THE Yes
DIR DIR DIR DIR DIR	DEN DERL	Sub-Clause 6.7	All external projections shall be radiused and any external projections other than press-fasteners shall be smooth and adequately faired.	External Projections: Radiused, smooth and adequately faired.	TOTAL YES
DIR DIR DIR DIR DIR	L STEE DIRL L STEE DIRL L STEE DIRL C STEE DIRL L DIRL DIRL L DIRL DIRL L HING-LINE	GIG PATE DANG DANG DE	All external projections not more than 2 mm above the outer surface of the shell (e.g. rivet heads) shall have a radius of a minimum of 1 mm.	Rivet Head :Radiused, not more than 2 mm above the shell & radius more than 1 mm.	Yes

Analysed By

Sunil Shukla
Deputy Toch. Manager

Authorised Signatory

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	L OFR DIRL L STR DORL L STR DORL E STR DORL L STR DORR	Sub-Clause 6.7.2	All external projections more than 2 mm above the outer surface of the shell shall have a radius of a minimum of 2 mm. The latter specific requirements shall not apply if a projection satisfies the requirements in paragraphs 7.4.1. or 7.4.2. Below.	Satisfactory	Yes
	LOOK OTHE LOUEL HIRL LOUEL WING LOUEL OTH LOUEL OTH LOUE	Sub-Clause 6.8	There shall be no inward-facing sharp edges on the inside of the helmet; rigid, projecting internal parts shall be covered with padding so that any stresses transmitted to the head are not highly concentrated.	Inward –Facing sharp edges: Not Present. Rigid Projection internal parts: Covered with padding.	THE YES THE PROPERTY OF THE PR
DT DT DT DT DT DT	HE WITH DINE. HE STREET STREET HE STREET HE STREET HE STREET HE STREET HE STREET	Sub-Clause 6.9	The various components of the protective helmet shall be so assembled that they are not liable to become easily detached as a result of an impact.	No detachment of components observed.	Yes
DI	AL DISC DISC.	Sub-Clause 6.10	Retention systems shall be protected from abrasion.	Satisfactory	
DT DT DT DT	EL OTHE PITEL EL STR. DIEL	Sub-Clause 6.11  DIRL  D	The helmet shall be held in place on the wearer's head by means of a retention system which is secured under the lower jaw. All parts of the retention system shall be permanently attached to the system or to the helmet.	Retention system permanently attached to the helmet and D-ring Provided.	Yes THE Yes

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DT DT DT	performed	ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	(As per ECE Regulation No.22, suppler 3 to the 05 series of amendments) (Including Revision 4)	Test Results	PREDICT
DT	REDIREDIRE	Sub-Clause 6.11.1	If the retention system includes a chin-	Chin Strap Included.	DING Die I
DT DT DT DT	RI DIR, DIRL RI DIRI DIRI RI DIRI DIRI RI DIRI DIRI	OTAL DIRL PORT DIRL PORT DIRL DIRL DIRL DIRL DIRL DIRL DIRL DIRL	strap, the strap shall be not less than 20 wide under a load of 150 N $\pm$ 5 N appliunder the condition prescribed in paragr 7.6.2.	mm Width:21.52	Yes
53	L THE DEVI	Sub-Clause 6.11.2	DIRE DIRE DIRE L'UNE DERE	EL DERL'INEL STREVEN	DERESTEE T
DI	il comparie. R. 1990 peri	DIRL DIRL	The chin strap shall not include a chin-ci	up. Not Included	STRE COLD I
DIE DIE	RI OTHE DIRE	Sub-Clause 6.11.3	Chin straps shall be fitted with a device tadjust and maintain tension in the strap.	Adjusting device: Fitted.	Yes
DIR	L VIII PTRL	Sub-clause 6.11.4	Chia stee C. A	LOTEL DESCRIPTION	DAME TARRET
DIR DIR DIR DIR DIR DIR DIR DIR	EL PARL DYRE BLOWN DYRE BLOWN DYRE BLOWN DYRE BLOWN DYRE BLOWN DYRE BLOWN DYRE BLOWN BYRE BLOWN DYRE BLOWN DYRE BLOW	DIRL DIRL OF	Chin strap fastening and tensioning device shall be positioned on the straps either so that there are no rigid parts extending most than 130 mm vertically below the head form reference plane with the helmet mounted on the appropriate sized head form, or so that the whole of the device is between the bony projections of the underside of the lower jaw.	extending more than 130 mm vertically below the head form reference plane observed.	Yes
DIR DIR DIR DIR DIR DIR	A W DIRECT OF THE COLUMN TO TH	DOME DOME DOWN DOWN OF THE OWNER	If the retention system includes either a double-D ring or sliding bar fastening device then means shall be provided to prevent the retention system being completely undone and also to retain the free end of the strap when the retention system is adjusted.	Satisfactory	DIRL Yes DIRL DIRL DIRL DIRL DIRL DIRL DIRL DIRL
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No.	L DERI DIRE	DIRL DIRL DIRL DIRL		TRE SUI	Tech. Man
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DT DT DT DT DT	EL PRE DTHE EL PRE DTRE EL PRE DIRI EL PRE DTRE EL PRE DTRE EL PRE DTRE	Sub-Clause 6.11.6	Sliding bar and double-D ring fastening devices shall be fitted with a pulling flap to be used for releasing the retention system. Its colour must be red and its minimum dimensions must be 10 x 20 mm.	Satisfactory DIRE	DIRECTOR OF THE PROPERTY OF TH
DT D	STORE STREET  REAL THE	Sub-Clause 6.11.7 DTRI	If a retention system includes a quick-release mechanism, then the method of release of this mechanism shall be self-evident. Any levers, tabs, buttons or other components which need to be operated to release the mechanism shall be coloured red, those parts of the rest of the system which are visible when closed shall not be similarly coloured, and the mode of operation shall be permanently indicated.	Not Applicable	DTRI PER D DTRI DTRI D DTRI DTRI D DTRI DTRI D DTRI DTRI D D DTRI D DTRI D D D D D D D D D D D D D D D D D D D
DIS DIS DIS	R. DERL	Sub-Clause 6.11.8	The retention system shall remain closed when the tests described in paragraphs 7.3., 7.6. and 7.7 are carried out.	Retention system closed as per clause.	Yes
DIS	CL CONTROL  CL CON	DIRL OF DIRL OF DIRL	The buckle of the retention system shall be designed so as to preclude any possibility of incorrect manipulation. This means, inter alia, that it must not be possible for the buckle to be left in a partially closed position.	Satisfactory	Yes
DIR DIR DIR DIR DIR DIR DIR	RI DISC DIRECTED DE CONTROL DE CO	Sub-Clause 6.12	The characteristics of the materials used in the manufacture of helmets shall be known not to undergo appreciable alteration under the influence of ageing, or of the circumstances of use to which the helmet is normally subjected, such as exposure to sun, extremes of temperature and rain.	Conditions simulated as per the requirement and sample also tested by wearing in sun light for 1h. (Satisfactory)	Yes unil Shukl

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	RL DAM 1978L  O DESCRIPTION  O DESCRIPTION  RL DTPL DTRL  RL DTRL	DIRL DIRL DIRL DIRL DIRL DIRL DIRL DIRL	For those parts of the helmet coming into contact with the skin, the materials used shall be known not to undergo appreciable alteration through the effect of perspiration or of toilet preparations. The manufacturer shall not use materials known to cause skin troubles. The suitability of a proposed new material shall be established by the manufacturer.  After the performance of one of the prescribed tests, the protective helmet shall not exhibit any breakage or deformation dangerous to the wearer.	No deformation/No breakage observed.	Yes
	Peripheral Vision	Clause 6.14 Sub-Clause 6.14.1	To carry out the test, the technical service shall select fromamong the existing sizes of a helmet type the size it considers likely to yield the least favourable result;	Satisfactory	Yes
DI	RI DIRI DIRI RI 19182 DIRI RI 19183 DIRI RI 1918 DIRI RI 1918 DIRI	Sub-Clause 6.14.2	The helmet shall be placed on the head form corresponding to its size by the procedure set out in annex 5 to this Regulation;	Satisfactory	Yes
DI DI	EL DESCRIPTION DE LA DESCRIPTION DESCRIPTION DE LA DESCRIPTION DE LA DESCRIPTION DE LA DESCRIPTION DE LA DESCRIPTION DESCRIPTION DE LA DESCRIPTION DESCRIPTION DE LA DESCRIPTION DESCRIPTION DE LA DESCRIPTION DESCRIPTION DE LA DESCRIPTION DESCRIPTI	Sub-Clause 6.14.3	In the above conditions there shall be no occultation in the field of vision bounded by: (See annex 4, figs. 2A, 2B, and 2C)		BIRL DIS 1 BIRL DIS 1 BIRL DIS 1 BIRL DIS 1
		DIRL DIRL DIRL D	Horizontally: two segments of dihedral angles symmetrical in relation to the median longitudinal planes. Each of these dihedral angles is defined by the median longitudinal vertical plane of the head form and the vertical plane forming an angle of not less than 105° with the median longitudinal vertical plane and whose edge is the straight line LK;	Deputy	Yes nil Shukla Tech. Mana

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	RE OFRE OFRE RE OTRE OTRE RE OTRE OTRE RE OTRE OTRE RE OTRE	Sub-Clause 6.14.3.2	Upwards: a dihedral angle defined by the reference plane of the head form and a plane forming an angle of not less than 7° with the reference plane and whose edge is the straight line L1 L2, the points L1 and L2 representing the eyes;	DIRL DIRL DIRL DIRL DIRL DIRL DIRL DIRL	DTRL Yes DTRL DTRL DTRL DTRL DTRL DTRL DTRL DTRL
	RI GORE BONL RL COLC. DINE RI GOOD DIRE RI GOOD DORE RI GOOD DORE	Sub-Clause6.14.3.3	Downwards: a dihedral angle defined by the basic plane of the head form and a plane forming an angle of not less than 45° with the basic plane and whose edge is the straight line K1 K2.	64.1° (1981)	Yes
4. DI	Visors	Clause 6.15	1 1/10	TOTAL TIME	A MIRE VINE
	RL 2 SI DERI RL 17 SI DERI RL	Sub-Clause 6.15.1	The systems of attachment of a visor to a helmet shall be such that the visor is removable. It must be possible to manoeuvre the visor out of the field of vision with a simple movement of one hand. However, the latter prescription may not be required for helmets which do not provide chin protection provided that a label is attached to the helmet to the effect of warning the purchaser that the visor cannot be manoeuvred.	Satisfactory	Yes Yes
RL D	RL WAR DIRL	Sub-clause 6.15.2	Angle opening	Passes the test	Yes
	RL UND DIRL RL UND DIRL RL CEL DIRL	DIRE DIRE DIRE DIRE DIRE DIRE DIRE DIRE	(Should be ≥ 5° as per Annex 9)		DIRI UT L
AF D	HAL I THE DIRE	Sub-clause 6.15.3	Field of vision		DOME DE LE

Analysed By

Sunil Shukla
Deputy Tech. Manager

Authorised Signatury

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### **TEST REPORT**

Report No. ULR No.

: DTRL/GEN/26082217230 : TC741422000003412F

S. no.	Specific Tests or types of tests performed	Specification or Standard (Method used for tests)  ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	Requirement  (As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)	Observation/ Test Results	Conformity
BL DT	RE OTRE BYRE RE OTRE DIRE RE OTRE DIRE RE OTRE DITE RE OT	Sub-Clause 6.15.3.1  DTRL DTRL DTRL DTRL DTRL DTRL DTRL DTR	The visor shall not comprise any part liable to impair the user's peripheral vision as defined in paragraph 6.14 when the visor is in the totally opened position. Furthermore, the lower edge of the visor shall not be situated in the downward field of vision of the user as defined in paragraph 6.14 when the visor is in closed position. The surface of the visor in the peripheral field of vision of the helmet may however include:  (i) The lower edge of the visor,	DTRI DTRI DTRI DTRI DTRI DTRI DTRI DTRI	DIRECTOR  DIRECT
Di Di Di	RI. CAUL DYNI. RI. WING DYNI. RI. WING DYNI. RI. WING DYNI.	DTRL O'S DTRL D DTRL O'S DTRL D DTRL DER DER D DTRL DER DER D DTRL DER DER D DTRL O'S DTRL O'S	provided that it is made of a material with at least the same transmittance as the rest of the visor,	Satisfactory	Dile Yes
	RI. VIA. DIRL RI. DIR	DIRL DOLDTRE	(ii) A device to allow the visor to be manoeuvred. However, if this device is situated within the field of vision of the visor defined in paragraph 6.15.3.2. below it shall be at the lower edge and present a maximum height (h) of 10 mm and its width (l) shall be such that the product (h x l) at the most is equal to 1.5 cm2. Moreover, it must be made of a material with at least the same transmittance as the visor and it must be free of any engraving, paint or other covering feature,	Satisfactory  THE STREET STREET  THE STREET STREET	Yes  DIRECTOR OF THE PROPERTY

Analysed By

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S.	Specific Tests	Specification or Standard	ULR No. : TO	C741422000003412F		
no. or	or types of tests performed	(Method used for tests)  ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	(As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)	Observation/ Test Results	Conformity	
DTI DTI DTI DTI DTI DTI DTI	L. IKHA DTRA L. OTRA DIRE L. OTRA DTRA L. OTRA DTRA L. OTRA DTRA E. DOTRA L. DTRA L. DTRA DTRA DTRA DTRA DTRA DTRA DTRA DTRA	Sub-clause 6.15.3.2	(iii) Fixings and devices to allow the visor to be manoeuvred if they are situated outside of the field of vision of the visor and if the total surface of these parts, including devices, if any, to allow the visor to be manoeuvred does not exceed 2 cm², possibly distributed on each side of the field of vision.  The field of vision of the visor is defined by:	Satisfactory	Yes	
DEL DEL DEL DEL	1 THE DIRECT STREET OF THE DIRECT STREET STR	DIRL DIRL DIRL SE THE DIRL OF SE DIRL OF THE DIRL OF SE DIRL DE THE DIRL OF SE DIRL DE THE DIRL DIRL DIRL DIRL THE DIRL DIRL DIRL DIRL THE DIRL OF DIRL OF	(a) A dihedron defined by the reference plane of the head form and a plane forming an angle of at least 7° upwards, its edge being the straight line L1 L2, with points L1 and L2 representing the eyes,	Satisfactory	Yes Division of the control of the c	
DTI DTI DTI DTI DTI DTI DTI	E DES DES DES E DE DES E	THE DIRL OF DI	(b) Two segments of dihedral angles symmetrical to the median vertical longitudinal plane of the head form. Each of these dihedral angles is defined by the median vertical longitudinal plane of the head form and the vertical plane forming with this plane an angle of 90°, its edge being the straight line LK,	Satisfactory	Yes 1	
DT	L PAR DIRL	DTRL DTRL DTRL OT	(c)and the lower edge of the visor.	DTRL		
DTI DTI DTI DTI DTI DTI DTI	L COME DIRECT COME	Sub-clause 6.15.3.3	To determine the field of vision as defined in paragraph 6.15.3.2. above, the helmet fitted with the visor being tested shall be placed on a test head form of suitable size in accordance with the provisions of paragraph 7.3.1.3.1., with the helmet tipped towards the rear as specified in paragraph 7.3.1.3.1. and the visor placed in the closed position.	Satisfactory	Yes	
a live	Was and the second		Visors shall have a luminous transmittance $\tau v \ge 80\%$ , relative to the standard illuminate D65. A luminous transmittance $80\% > \tau v \ge 50\%$ , measured by the method given in paragraph 7.8.3.2.1.1., is also permissible if the visor is marked with the symbol shown in figure 2 of this code and/or with the English words "ADAYTIME USE ONLY". The luminous transmittance shall be measured before the abrasion test.	Deputy	il Shukla Tech. Manag	

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## **TEST REPORT**

Report No. ULR No.

: DTRL/GEN/26082217230 : TC741422000003412F

S. mo.	Specific Tests or types of tests performed	Specification or Standard (Method used for tests)  ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)  Sub-Clause 6.15,3,5	Requirement  (As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)	Observation/ Test Results	Conformity
DISTRICT OF STREET	RE PIRE DINE RE GIRL DINE RE DINE RE GIRL DI	JOHN DIRL BYRE DIRL DE CHARLES DE	Visors shall be free from any significant defects likely to impair the vision, such as bubbles, scratches, inclusions, dull spots, holes, mould marks, scratches or other defects originating from the manufacturing process in the field of vision. The light diffusion shall not exceed the limit in accordance with paragraph 7.8.3.2.1.2. when measured in accordance with one of the methods specified in annex 11.(See Annex 2 of this report)	Satisfactory  CHILL  CH	Yes
DO BE	d. pring pring. d. varia brea. d. varia brea. d. diff. tribit. d. princ princ. d. varia princ. d. princ princ princ. d. princ princ princ. d. princ princ princ. d. princ princ princ princ. d. princ princ princ princ princ. d. princ	PIEL OTRE TITLE OTRE TO THE OT	If different results arise when this is assessed, the requirements on scattered light shall be measured and assessed over an area 5 mm in diameter which includes the presumed error. In addition, the regular transmittance shall not deviate by more than ±5 per cent from the reference value, measured in one of two sight points specified in paragraph 6.15.3.8., at any point within the field of vision of the visor.	DOME DATE. D	IAME UPOL I DYSL UPOL I
DIR DIR DIR DIR DIR DIR	d 150 BIRL d 150 BIRL L 170 DIRL L 510 BIRL L 170 DIRL	DISCOUNTS OF THE DISCOUNTS OF THE PROPERTY OF	The spectral transmittance, measured by the method given in paragraph 7.8.3.2.1.1., of the visor shall not be less than 0.2τv. The 'spectral transmittance shall be measured before the abrasion test.	Satisfactory	Yes
		THE DIRE THE DIRE TO SERVE OF THE OTHER DIRECTOR OTHE	The table contains the permissible refractive powers at the sight points. The sight points are located in the reference plane 32 mm to the right and the left of the longitudinal median plane.  For Permissible refractive power values for visors – See Annexure 1	Satisfactory	Yes

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5.	Tests	Clause 7	H DITE OF DESIGNATION OF THE LOSS	v princentia prid	DIEL F
	el Diel Diel er Diel Diel er Uikl Diel	Sub-Clause 7.2	Each helmet shall be subject to Solvent conditioning.	L BIW OTEL BOS L BIW OTEL BOS L GOOD DTO, BOS	
	RELITED BYNE RE DORE DYNE RE DORE DYNE RE DORE DYNE RE DOWN DYNE RE DO	Sub-Clause 7.2.1  Sub-Clause 7	Solvent Conditioning Take a cotton cloth approximately 150 mm square and a quantity approximately 25 ml of a solvent consisting of test liquid B in accordance with ISO 1817:1985(70 per cent octane and 30 per cent toluene) Using the cloth soaked in the solvent, apply the solvent to all those regions of the outside surface of the helmet within 50 mm of the chin strap fixings, and keep these regions wet with the solvent for (7.5 " 2.5) s. Repeat the procedure on the remainder of the external surface including any chin guard, keeping these regions wet for (12.5 " 2.5) s. Do not carry out any further conditioning or testing during the following 30 min.	All Conditioning has been done as per clause.	THE YES  THE
	RE UTIN, DYPE RE, 1972, DYRE RE, 1973, DYRE RE, 1973, DYRE RE, 1974, DYRE	Sub-clause 7.2.2	Ambient-temperature and hygrometry conditioning The helmet shall be exposed to a temperature of 25 °C " 5 °C and are relative humidity of 65% " 5% for at least 4 hours.	LOTAL DING DATA	
D1	RE TORE OTHER	Sub-Clause 7.2.3	Heat conditioning The helmet shall be exposed to a temperature of 50 °C + 2 °C for not less than 4 hours and not more than 6 hours.	T DIEGE STEEL OFFI L BOTH BETSEL OFFI L DIEGE STEEL	min print origin trop i origin local origin local origin local origin local
EL D	RL THE DISC RL THE DISC RL THE DISC RL DISC DISC RL DISC DISC		Low-temperature conditioning The helmet shall be exposed to a temperature of -20 °C + 2 °C for not less than 4 hours and not more than 6 hours.	E COMPANY STREET	DERI HERE I

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	performed	ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	(As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)	Land Did. Like	DING STREETING TO STREET
	TRL STOL OTHER FREE DEED DEED THE COME DEED THE COME DEED THE COME DEED	Sub-Clause 7.2.5	Ultraviolet-radiation conditioning and moisture conditioning  The outer surface of the protective helmet shall be exposed successively to:	L DESCRIPTION DATE	DISC MEDICAL DISC DISC DISC DISC DISC DISC DISC DISC
	TRE TURE DIVE TRE DORE DERING TRE DORE DERING TRE DORE DIVE	Sub-Clause 7.2.5.1	7.2.5.1 ultraviolet irradiation by a 125-watt xenon-filled quartz lamp for 48 hours at a range of 25 cm;	D. O'REL OTRE DIS	
	RI 1000 DIRL RL DIRL DIRL RI 1080 DIRL RI 1080 DIRL	Sub-Clause 7.2.5.2.	Spraying for 4 to 6 hours with water at ambient temperature at the rate of 1 litre per minute.	DE BUILDE DE DE LES DE	
	Impact- absorptions tests	Clause 7.3 Sub-Clause 7.3.6	The absorption efficiency shall be considered sufficient where the resultant acceleration measured at the centre of gravity of the head form at no time exceeds 275 g, and the Head Injury Criterion does not exceed 2400. The helmet shall not become detached from the head form.  (See Annexure 3)	Satisfactory (See Annexure 3)	Yes
7.	Test for Projections and Surface Friction (Method B)	Clause 7.4.2 Sub-Clause 7.4.2.4.1	For shear assessment the tested projection shall shear away ,be detached or alternatively shall not prevent the assessment bar from sliding past the projection. In all cases the bar on the horizontal carriage shall travel past the projection.	Satisfactory	Yes
21 B	TRE FOR THE TOTAL TREE	Sub-Clause 7.4.2.4.2	For friction assessment the abrasive carriage shall not be brought to rest by the helmet.	Satisfactory	Yes

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### TEST REPORT

Report No. : DTRL/GEN/26082217230

ULR No. :	TC741422000003412	F
Requirement	Observation/	Confo
Regulation No.22, supplement	Test Results	THE USE

S. no.	Specific Tests or types of tests performed	Specification or Standard (Method used for tests)  ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	Requirement  (As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)	Observation/ Test Results	Conformity
8. Rigidity Tests Cla Sub		Clause 7.5 Sub-Clause 7.5.4  In the test along each axis, the deformation measured under the 630 N load shall no exceed that measured under the initial 30 N load by more than 40 mm.  Sub-Clause 7.5.5  After restoration of the 30 N load, the deformation measured shall not exceed that measured under the initial 30 N load by more than 15 mm. (See Annexure 4)		Satisfactory (See Annexure-4)	Yes
9. 10 10 10 10 10 10 10 10 10 10 10 10 10	Dynamic Test of the Retention system	Dynamic Test Olause 7.6 of the Sub-Clause 7.6.4 Retention (a) During the test, the dynamic display of the point of application of the force st		Satisfactory (See Annexure-5)	Yes
10.	Retention (Detaching) Test	ion Clause 7.7		Satisfactory (See Annexure-6)	Yes
11.	Visor Tests	Clause 7.8 Sub-Clause 7.8.2	Mechanical Characteristics	Passes the test	Yes
10. D	RI, 1981 DTRI. RE-1982 DIRE RI 1984 NTRI RI 1984 DTRI.	Sub-Clause 7.8.2.3.1	No sharp splinters are produced if the visor is shattered. Any segment having an angle less than 60° shall be considered as a sharp splinter.	Satisfactory	Yes

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12.	Optical qualities and scratch resistance	Clause 7.8.3 Sub-Clause 7.8.3.2.1	7.8.3.2.1. Three similar test pieces, each from a different visor and taken from the area specified in paragraph 6.15.3.2., shall meet the requirements of paragraphs 7.8.3.2.1.1.and 7.8.3.2.1.2.	Satisfactory	Yes M
	TEL DIRE DIRE TEL DIRE DIRE TEL DIRE DIRE TEL DIRE DIRE TEL TEL DIRE TEL TEL DIRE TE	Sub-Clause 7.8.3.2.1.1	7.8.3.2.1.1. In a parallel beam, with the test specimens being irradiated vertically, determine the spectral transmittance values between 380 nm and 780 nm and then the transmittance and the visual attenuation quotient in accordance with the equations given in annex 13.  To calculate the luminous transmittance, the spectral distribution of standard illuminate D65 and the spectral values of the colorimetric 2° standard observer CIE 1931 according to ISO/CIE 10526 shall be used. The product of the spectral distribution of standard illuminate D65 and the spectral values of the colorimetric 2° standard observer CIE 1931 according to ISO/CIE 10526 is given in annex 14. Linear interpolation of these values for steps smaller than 10 nm is permissible.	Satisfactory (See Annexure-1)	Yes
	RI, PINI DERI, RI, VIRI DIRI, RI, VIRI DIRI, RI, PINI DIRI,	Sub-Clause 7.8.3.2.1.2	The light diffusion shall not exceed the following values for each method: See Annexure 2	Satisfactory (See Annexure-2)	Yes
13.	Micro-slip test of the chin strap	Clause 7.9 Sub-Clause 7.9.4	The total slippage through the grip shall not exceed 10 mm.	Slippage through the grip:2.48 mm	Yes
14.	Test for resistance to abrasion of the chin strap	Clause 7.1 Sub-Clause 7.10.5	The strap shall withstand a tension of 3 kN without breaking.	Slippage at micro slip test less than 5mm. Hence, this test not required to be performed. (Not Applicable)	THE TOTAL THE COMMENT OF T

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Deputy Tech. Manage

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15.	Tests for	supplement 3 to the 05 series of amendments (Including Revision 4)	to the 05 series of amendments) (Including Revision 4)	OTH DTREETERS	THE PURE OF
	retention systems relying on	Clause 7.11 Sub-Clause 7.11.1	Inadvertent release by pressure	DIE DIE DER	THE BIRL DE
	quick-release mechanisms	Sub-Clause 7.11.1.1	If the retention system is designed to be released by pressure on a certain part, the system shall not release when a rigid sphere of diameter 100 mm is pressed with a force of $100\pm5$ N directly in the line of movement of that part.	Retention system is not designed to be released by pressure on certain part. (Not Applicable)	TRUE TO DE LETTE DE L
	RL ASSEL DIRECTOR OF THE CONTROL OF	Sub-Clause 7.11,1.2	If such a system incorporates more than one quick-release mechanism, or one such mechanism requiring more than one operation to release it, the system shall be deemed not to comply with this requirement if sufficient opening of the system is caused by the pressure of the sphere on only one quick-release mechanism or for only one operation, whichever is appropriate, to allow the release of the appropriate head form.	Not Applicable	THE BLOW DESCRIPTION OF THE BL
	Ease of release	Clause 7.11.2 Sub-Clause 7.11.2.1	The helmet shall be mounted on the apparatus described in paragraph 7.6. such that a static force of 150±5 N is applied to the retention system. An additional static force of 350±5 N shall be applied to the retention system for at least 30 seconds and then removed. After the additional force has been removed, the opening system shall be capable of being operated by a force not exceeding 30 N. However, if the quick release mechanism is incorporated in the helmet shell, the opening system shall be capable of being operated by a force not exceeding 60 N.	Not Applicable	TRI DING BTO TRI D
	Margar	Sub-Clause 7.11.2.2	The buckle opening force shall be applied using a dynamometer or similar device in the manner and direction of normal use. In the case of a push button the contact end shall be a polished metal hemisphere with radius 2.5 " 0.1 mm. The opening force shall be applied on the geometric centre of the push button or respective application areas.	The state of the s	Shukla

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17.	Durability of quick-release mechanisms	Clause 7.11.3 Sub-Clause 7.11.3.1	Subject the quick-release mechanism to the following procedure in the order given.	OTE DIRECTOR OTEL DIRECTOR OTEL DIRECTOR OTEL DIRECTOR OTER OTER OTER OTER OTER OTER OTER O	PER DIRECT
	AL DERI DIRE  N. OTRE DIRE  R. OTRE  R.	Sub-Clause 7.11.3.2	Using apparatus appropriate to the particular design of mechanism carry out the following procedure. Close and lock the mechanism.  Apply a loading force of 20±1 N in the direction in which the mechanism is designed to bear load, then unlock and disengage the mechanism under load. Complete this cycle in not less than 2 s. Repeat for a total of 5,000 cycles.	Not Applicable	TRE DIE D  TRE DE LE
DI DI	RE PURE PURE	Sub-Clause 7.11.3.3	If the quick-release mechanism incorporates metal components carry out the following procedure:	Not Applicable	THE PART OF
	RI PER DIRECTOR DE LA PERSONA	Sub-Clause 7.11.3.4  DIRL  DIR	Place the complete mechanism in a closed cabinet so that the mechanism can be continuously wetted by a spray while still allowing free access of air to all parts of the mechanism.  Subject the mechanism to a spray of a solution consisting of 5±1 per cent (m/m) of reagent grade sodium chloride in distilled or deionized water for a period of 48±1 h at a temperature of 35±5 °C. Rinse the mechanism thoroughly in clean running water to remove salt deposits and allow it to dry for 24±1 h.	Not Applicable	OFFIL DISTORY DESCRIPTION OF THE COURSE OF T
L D	RL DAL DIE	DATE DORL DATE DATE OF	Repeat the procedure in paragraph 7.11.3.2.		
	RE STRE DIRECTOR OF THE CONTROL OF T	Sub-clause 7.11.3.5	The quick release mechanism shall not fracture nor disengage when a tensile force of 2.0 kN±50N is progressively applied to the retention system in the direction in which the mechanism is designed to bear load. Following the application and removal of the force, the quick release mechanism shall still be	Not Applicable	nil Shuk
N	iota	DORL DIKE DIKE DOKE OF	capable of operation.	Deputy	Stech. Man

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### TEST REPORT

Report No.

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ULR No.

### Annexure 1

Permissible refractive power values for visors

Spherical effect	Astigmatic effect	DTRL DTRL DTRL D DTRL DTRL DTRL D	Prismatic effect difference				
DTRI DIZE	RI GORL DERG HOLD FIL DERG DERG DERG FIL DERG DERG DERG RI DERG DERG DERG RI DERG DERG DERG	Horizontal		DESTRUCTION OF THE PARTY OF THE	Vertical	DIRL D	
$\frac{D_1+D_2}{2}$	$ D_1-D_2 $	Base Out	Base In	D DING DTRI D			
DIRL DISE DI	KI DIKL DIKL PIEL		THE DIRECTOR OF THE				
m <sup>-2</sup>	m <sup>-2</sup>	Cm/m	Čm/m		Cm/m		
DTRE CORR OF	THE DIRECTOR OF THE OTHER OFFICE OFFI		AL PINC DIR DIR AL PINC STA PIN AL PERO SESSION				
0.013	0.004	0.114	0.113	CONTRACTOR	0.217	E381-V	
0.013	0.004	0.114	0.113		0.217		

D<sub>1</sub>, D<sub>2</sub>: Refractive effect in two main sectors

The requirements for the prismatic effect apply to the difference between the values at the two sight points.

The refractive powers shall be measured according to method specified in annex 15 of ECE-22.05

### Annexure 2

The light diffusion shall not exceed the following values for each method:

DEEL DIEL DIE	Before abrasion		After abrasion
DISCLOSING DIS	The part and part and the	MAL PIRE TO BE DE	
	0.7 %	I Will THUS IN THE DE	1.5 %

b/ measured according to annex 11, method (b);

Sunil Shukla
Deputy Jech, Manage
Author Sed Signatory

Analysed By

The results listed refer only to tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.

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### TEST REPORT

Report No. ULR No.

: DTRL/GEN/26082217230 : TC741422000003412F

#### Annexure 3

#### Impact Absorption Test for Helmets

Velocity Max peak

: 7.5(-0.0, +0.15) m/s for kerbstone and flat (at all points, except "S" point), 5.50 (-0.0, +0.15) m/s for flat (at "S" point).

Helmet no.	Condition	Test anvil	Test site	Velocity (m/s)	Peak 'G ≤275 g	HIC ≤2400	Result
1.	Solvent plus ambient temperature and	Kerbstone	В	7.58	155.7	779	Pass
	hygrometry	Kerbstone	X	7.54	114.5	645	Pass
	conditioning	Flat	P	7.51	195.4	1725	Pass
I DISC	THE PURE PURE DAME	Flat	R	7.56	173.3	1001	Pass
2.	Solvent plus ambient	Flat	В	7.58	192.6	1401	Pass
	temperature and	Flat	X	7.59	179.7	1240	Pass
	hygrometry conditioning	Kerbstone	P	7.58	130.9	758	Pass
DTRI.		Kerbstone	R	7.58	141.3	692	Pass
3.	Solvent plus heat	Kerbstone	В	7.62	186.8	1397	Pass
	conditioning	Kerbstone	X	7.62	169.1	706	Pass
	OT DIRL DUE DIRL	Kerbstone	P	7.51	138.2	595	Pass
DTRI	THE COLD BUILDING STREET	Kerbstone	R	7.58	173.8	1140	Pass
4.	Solvent plus low	Flat	В	7.54	209.2	1717	Pass
	temperature conditioning	Flat	X	7.54	162.7	1122	Pass
	conditioning	Flat	P	7.51	171.7	1182	Pass
	PLANT LANGE THE PARTY OF	Flat	R	7,58	158	1054	Pass
DTRL	THE TYPE DAME OF BE	Flat	S	5.58	170.8	844	Pass
5.	Solvent plus ultra- violet radiation conditioning and moisture conditioning	Kerbstone	В	7.54	136.9	786	Pass
		Flat	X	7.58	150.1	1050	Pass
		Flat	P	7.58	196	1445	Pass
DIRL	DAME DIRE WITH DAME	Kerbstone	R	7.52	151.7	927	Pass

Sunil Shukla Deputy Tech. Manage Authorised Signatory

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#### Annexure 4

Helmet no.	Condition	Direction	Deformation (measured under the 630 N and the initial 30 N)	Deformation (measured under the final 30 N and the initial 30 N)	Result
N DIST	Solvent plus ambient temperature and hygrometry conditioning	Longitudinal axis	12 mm	1 mm	Pass
2 10.	Solvent plus ambient temperature and hygrometry conditioning	Transverse axis	9 mm	DTRL TIME THE DTRL TO THE DTRL	Pass

### Annexure 5

Helmet no.	Condition	Dynamic displacement (mm)	Residual displacement (mm)	Result
DIRL DIRL DE DE LE	Solvent plus ambient temperature and hygrometry conditioning	25 mm	21 mm	Pass

### Annexure 6

Helmet no.	Condition	Angle (between the reference line and the reference plane of the head form)	Result	
DIRE OF DIRE OF LOS	Solvent plus ambient temperature and hygrometry conditioning	200	Pass	
	TO DESCRIPTION OF THE OWNER OW	O'RE TORE THE OTHER THE OTHER	THE THE DISCOUNTS OF STATE	

Sunil Shukla Authorised Sign

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