



Research & Development Centre for Bicycle & Sewing Machine

(UNDP/UNIDO Assisted Punjab Govt. Project)

B-38-39, Focal Point, Phase V, Ludhiana-141010 (INDIA)

TEST REPORT

Report No. : TC827519300000365F **Date** : 24 September 2021
Customer Name : M/s Amrik Cycle Inds,
Address : D-348, Phase-VIII, Focal Point, Ludhiana. **Work Order No.** : 21SE-46/21SEP-24
Lab section : Bicycle Test Lab
Sample Description : **Handlebar and Stem assembly**
Test conducted : As requested by the customer, for details refer to attached page(s)

Conclusion :

<u>Tested sample</u>	<u>Standard</u>	<u>Results</u>
Submitted samples	ISO 4210-2:2014 (E) - Cycles- Safety requirements for Bicycles	
	- As per clause 4.7.6.1 of ISO 4210-2:2014 Handlebar Stem - Lateral Bending test	Satisfactory
	- As per clause 4.7.6.2 of ISO 4210-2:2014 Handlebar and Stem Assembly – Lateral bending test	Satisfactory
	- As per clause 4.7.6.3 of ISO 4210-2:2014 Handlebar-Stem - Forward bending test	Satisfactory
	- As per clause 4.7.6.4 of ISO 4210-2:2014 Handlebar to handlebar stem – Torsional security test	Satisfactory
	- As per clause 4.7.7 of ISO 4210-2:2014 Handlebar and Stem assembly – fatigue test	Satisfactory

Your Ref: Handlebar 31.8X640mm, Alloy Stem 31.80mm.

M. Singh
Analysed by
24/09/2021

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A. Kapur
Authorised Signatory

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LTF-05

Phone : 0161-2672096-97, Fax : 0161-2672098

E-mail : bsmcrd@gmail.com, Website : www.bsrdindia.org



TC-8275/Q

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Clause	Requirements	Observation	Result
4.7.6.3	Handlebar-stem — Forward bending test		
4.7.6.3.2	Requirement for stage 1 When tested by the method described in ISO 4210-5:2014, 4.4.1, there shall be no visible cracks or fractures and the permanent deformation measured at the point of application of the test force and in the direction of the test force shall not exceed 10 mm.	No visible crack or fracture observed and the permanent deformation = 0.10 mm	Satisfactory
4.7.6.3.3	Requirement for stage 2 When tested by the method described in ISO 4210-5:2014, 4.4.2, there shall be no visible cracks or fractures.	No visible crack or fracture observed	Satisfactory
4.7.6.4	Handlebar to handlebar stem — Torsional security test When tested by the method described in ISO 4210-5:2014, 4.5, there shall be no movement of the handlebar relative to the handlebar stem.	No movement of the handlebar relative to the stem observed after the test	Satisfactory
4.7.7	Handlebar and stem assembly — Fatigue test		
4.7.7.2	Requirement for stage 1 and stage 2 When tested by the method described in ISO 4210-5:2014, 4.9.1 or 4.9.2, there shall be no visible cracks or fractures in any part of the handlebar and stem assembly or any bolt failure. For composite handlebars or stems, the running displacements (peak-to-peak value) at the points where the test forces are applied shall not increase by more than 20 % of the initial values.	No visible crack or fracture observed in any part of the handlebar and stem assembly & also no any bolt failure observed	Satisfactory

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Submitted samples



Picture 1

Date of sample Received : 04 September 2021

Period of testing : 24 September 2021

End of report

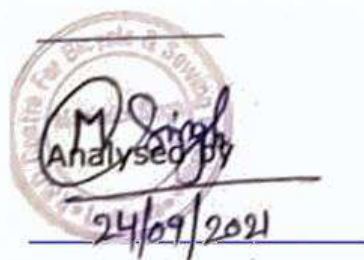
This report is issued for the submitted samples only.

Submitted sample have been tested as per Reference document.

Full or part of this report can't be reproduced or presented in the court of law without the written permission of this office.

Submitted and Tested samples are retained with this lab for maximum 90 days from this date.

All disputes are subjected to Ludhiana jurisdiction only.


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