SUMMER TRAINING REPORT

FOUR WEEKS INDUSTRIAL
TRAINING

AT



SOUTH EAST CENTRAL RAILWAY, BILASPUR

(A UNIT OF INDIAN RAILWAY)

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD

OF DEGREE OF

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

SUBMITTED BY: SUBMITTED TO:

Bhawana Agrawal SECR DRM OFFICE

गुरू घासीदास विश्वविद्यालय (केन्रीय विश्वविद्यालय अधिनयम 2009 क्र. 25 के अंतर्गत स्वागित केन्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

CONTENTS

Acknowledgement	2
Abstract	7
Declaration	3
List of tables	6
List of figures	6
Organization Introduction	8
Important Parameters of LHB Coaches	10
Parts of LHB Coaches	12
Wheel	12
Axle	12
Components of Wheel & Axle Assembly	13
Axl e Bearing	13
Bogie	15
Bogie Frame	15
Primary Suspension	16
Secondary Suspension	18
Cross Bar	19
Bolster Assembly	19
Draw & Buffing Gear assembly	19
Screw Coupling	19
Side Buffers	19

गुरू घासीदास विश्वविद्यालय (केन्रीय विस्तविद्यालय अधिनयम 2009 क्र. 25 के अंतर्गत स्वापित केन्रीय विस्तविद्यालय) कोनी, बिलासपुर – 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

Transmission of Hauling Force	21
Center pivot	21
Longitudinal Bump Stop	21
Articulated Central Arm	21
Trolley	22
Load Distrubtion	22
Air Brake System	23
Component of ABS	24
Bogie Brake Equipment	26
Wheel Slide Protection Equipment	29
Speed Sensors	30
Principle of Antiskid	31
Center Buffer Coupler	31
Train Maintenance	33
Primary Structure	33
Maintenance Schedule	33
Periodic Overhauling	34
POH Date & Return Date	34
Significance of Coach Number	34
Conclusion	35
References & Bibliography	36



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

