

Tilak Maharashtra Vidyapeeth Lokamanya Tilak College of Physiotherapy Kharghar, Navi Mumbai

# Work Related Low Back Pain in Sedentary Railway Officials of the Age Group 30 to 60 Years at Chhatrapati Shivaji Maharaj Terminus Mumbai- A Survey Study

Research Project Submitted to Maharashtra University of Health Sciences, Nashik

BY

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SUBMITTED TO TMV's Lokmanya Tilak College Of Physiotherapy, Kharghar, Affiliated to MUHS

## **CERTIFICATE**

This is to certify that MISS SUDIKSHA DHARMENDRA RATHOD has satisfactorily completed research project titled WORK RELATED LOW BACK PAIN IN SEDENTARY RAILWAY OFFICIALS OF THE AGE GROUP OF 30 TO 60 YEARS AT CHHATRAPATI SHIVAJI MAHARAJ TERMINUS MUMBAI- A SURVEY STUDY

As a requirement for Bachelors Of Physiotherapy degree at MaharashtraUniversity of Health Sciences for the academic year 2021-2022.

Guide Principal
Dr. Tejal Pardeshi Dr. Shweta Phadke

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Place: Lokmanya Tilak College Of Physiotherapy

#### **ABSTRACT**

#### > Objectives:

To carry out a survey study on work related low back pain in sedentary railway officials of age group 30 to 60 years. To study the level of disability of low back pain among railway officials. To study the affection of low back pain among males and females.

#### > Methods:

Ethical clearance was be obtained from the ethics committee. Cross Sectional Study was performed with convenience sampling.100 Samples was taken from sedentary railway officials of the age group 30-60 years at Chhatrapati Shivaji Maharaj Terminus ,Mumbai. Based on exclusion and inclusion criteria Modified Oswestry Low Back Pain Disability Ouestionnaire was used.

#### Results and Conclusions:

Based on the data collected by the researcher, it was concluded that 61 participants had complained of low back pain among which 44 were males and 17 were females. Since most of the officials were desk workers, long hours on desktop PCs and constantly sitting in one posture has resulted in more stress on the back.

#### > Limitations:

Disparity in volume of males and females. Study was limited to only Railway Officials of one Railway station of Mumbai only. Study included certain drawbacks regarding individual work load details and sitting ergonomics. The study does not cover consultation of doctor for pain.

Keywords:- Low Back Pain, Gender, Age, Disability, Modified Oswestry Low Back Pain Disability Questionnaire was used.

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## LIST OF ABBREVIATIONS

1. LBP : Low Back Pain

MLBP: Mechanical Low Back Pain.
 CA: Chartered Accountant.
 HOER: Hours of Employment Rules.

5. RA : Rheumatoid Arthritis

6. OA : Osteoarthritis7. TB : Tuberculosis.

8. MOLBPDQ : Modified Oswestry Low Back Pain Disability Questionnaire.

9. PCs : Personal Computers.

# CHAPTER ONE INTRODUCTION

Low back pain (LBP) is the most common cause of disability worldwide. <sup>[1]</sup> LBP is defined as 'pain and discomfort' localized below the costal margin and above the inferior gluteal folds with or without leg pain'<sup>[2]</sup> LBP can be categorized into 3 types a) Acute, b) Sub-Acute & c) Chronic. Acute low back pain is defined as an episode of pain persisting for 7 to 10 days, sub-acute as pain persisting between 10 days to 7 weeks and chronic as pain persisting longer than 7 weeks. <sup>[3]</sup>

The causes of low back pain are a) Structural (mechanical and non-specific), b) Neoplasm(primary or metastatic), c) Referred to spine, d)Infection(osteomyelitis), e)Inflammatory(spondylitis), f) Metabolic. Mechanical back pain could be a general definition that refers to any sort of back pain caused by inserting abnormal stress and strain on muscles of the backbone. Mechanical low back pain (MLBP) is a major cause of illness and disability, especially in people of working age. Typically, mechanical pain results from dangerous habits, like poor posture, poorly designed seating, and incorrect bending and lifting motions. [4]

The major contribution for low back pain comes from long sedentary hours, high amount of work load, low motivation, inappropriate sitting posture, long office hours sustaining one posture for prolonged period of time and continuing same job for many years. The five most common pain producing structure of low back are posterior longitudinal ligament, interspinousligament, spinal nerve roots, facet joints and deep and muscles. [5]

> There are four types of postural alignment that deviate from the ideal alignment are as follows

a) Kyphosis, b) Lordosis, c) Sway back and d) Flat back. Various posture attend during sittingare slouching with the shoulders hunched forward, cradling phone between shoulder and the neck, sitting with crossed legs on chair, sitting with leaning to one side of the arm rest. There are various types of sitting jobs such as a) Railway Officials, b) Bankers, c) IT Professionals, d)Teachers, e) Advocates, f) Drivers, g) Receptionist, h) CA, etc. [6] Railway officials are commonly exposed to prolonged sitting or standing, lifting heavy loads, vibration, non-neutralbody posture and psychological stress due to rigid protocols and limited rest in the course of their work, particularly during locomotive engine operation, railway track maintenance, shunting and freight, fleet services which are likely to perpetuate significant 'yellow flags' of workers LBP. [7]

Men and women are equally reported to be affected by low back pain. [2] While overall femaleshave higher prevalence of low back pain (LBP) across all age groups, this male vs. female difference in LBP prevalence further increases after female menopause age. Postmenopausal women show accelerated disc degeneration due to relative estrogen deficiency leading to LBP. The most common age group to be affected among the males was 31-40 years of age, where 38.6% were affected, while amongst the female the most common age group to be affected was41-50 years with 38.1%. [2]

Indian Railways is one of the biggest Government owned organization comprising of 1.6 million employees. The services of these employees are classified in to 4 major groups. Group A & B or Class I & II are officers, Group C or Class III are supervisors, ministerial staff etc., and Group D or Class IV staff are Peons, Khalasis etc. The biggest contributors for the Railwayservices are Group C officials. The further detailed classification of Group C employees are asfollows [8]:-

- Technical Supervisors such as Senior Section Engineer, Section Engineer, and JuniorEngineer I & II.
- Ministerial Staff, such as Chief Office Superintendent, Office Superintendent, Gr I &II, Jr./Sr. Clerks
- $\bullet \quad \textit{Drawing/Design Supervisors such as Senior Section Engineer, Section Engineer, Junior Engineer I~\&~II.}$
- Loco Inspectors, such as Chief Loco Inspectors, Loco Inspectors.
- Loco Maintenance, such as Senior Section Engineer (Loco), Section Engineer (Loco).
- Stenographers Gr. I & II.
- The Present Survey Study is to be Carried Out on Group C Officials
- Technical Supervisors Such as Senior Section Engineer, Section Engineer, JuniorEngineer I & II
- Ministerial Staff, Such as Chief Office Superintendent, Office Superintendent, Jr./Sr. Clerks) of Headquarters Office of Chhatrapati Shivaji Maharaj Terminus, Mumbai.

#### Need for Study

Indian Railways is one of the biggest organization owned by the Government of India. At present, a total of about 1.6 million employees are working under this organization. Majority of the employees work in offices and come under Group C (Ministerial staff working in offices) category, which comprises about 92.6% of the entire Railway work force.

Hence, nearly 1.45 million i.e 14.5 lakhs employees work in office with desk jobs. As per HOER( Hours of Employment Rules), each employee works for nearly 8.5 hours in office with half hour break for lunch. Continuous working on desktop computer results in stiffness of back and leads to low back pain.

So need of the hour is to do a survey study of work related low back pain in sedentary railwayofficials of the age group of 30 to 60 years at Chhatrapati Shivaji Maharaj Terminus, Mumbai with help of Modified Oswestry Low Back Pain Disability Questionnaire.

#### CHAPTER TWO REVIEW OF LITERATURE

- Prevalence and associated occupational factors of low back pain among the bank employees in Dhaka City. (2020); by Mohammad Ali et.al. have stated in their study that The 1-month prevalence for LBP was found to be 36.6% among the bank employees, and the prevalence was the highest (64.3%) for the 51- to 59-year-old age group. The regression analysis indicates that respondents from both age groups, 41-50 years (OR = 2.00, 95% confidence interval [CI] = 1.10-3.69) and 51-59 years age groups (OR = 5.14, 95% CI = 2.05-13.64), are significantly associated with LBP. Furthermore, obesity (OR = 2.06, 95% CI = 1.01-4.21), and prolong working hours (>9hours) (OR = 1.42, 95% CI = 1.01-2.0) are positively associated with LBP. The top five important variables for LBP identified by random forest technique are: age, length of employment, prolong office hours, presence of chronic illness, and physical activity.
- ➤ Psycho-Behavourial risk of low back pain in Railway workers (2014); by K. Ganasegeran et.al. in their study stated that there were 513 study participants (70% response rate). The prevalence of LBP in the previous month was 69%. Multivariate analysis yielded four significant predictors of LBP employment of ≥10 years, lifting and lowering heavy loads, prolonged standing posture and psychological stress.
- Prevalence and risk factors of low back pain (2018) by Jella Ramdas et. al. in their study have clarified that the most common age group to be affected among the males was 31-40 years of age, where 38.6% were affected, while amongst the female the most common age group to be affected was 41-50 years with 38.1%. Most of the patients has strenuous physical exercise on daily basis for long period of time (70.9%). 58.3% patients were under stress and anxiety, while 56.3% lifted heavy weights regularly. 44.7% persons were either overweight or obese and had LBP due to the excess weight, while 28.6% had LBP due to sitting for long periods.
- Prevalence of back pain and associated factors among bank staff in selected banks in Kigali, Rwanda: A cross sectional study (2017) by Livingstone Kanyenyeri et.al. haveenumerated that the prevalence of back pain among the bank staff was found to be 45.8%. Multiple logistic regression revealed that having no break off during working time {AOR=3.96; 95% CI=1.71-9.20; p<0.001}, sitting in a back bent position {AOR=9.20; 95% CI=2.41-35.17; p=0.001} and sitting in back twisted position {AOR=25.87; 95% CI=6.71-99.65; p<0.001} were predictors of back pain
- Prevalence and Risk Factors of Low Back Pain among Office Workers in Lebanon. (2015) by Wafa Bawabi et.al. Their results show that 112 (44.8%) of the recruited population suffer from back pain. Females are the most affected (68%) versus males (32%) (P=0.023). The logistic regression showed that LBP was positively associated with backbone crookedness (P=0.003), knee pain (P<0.001), wrist pain (P=0.002), contractions (P=0.014), numbness (P=0.009), previous treatment for back pain (P<0.001), doctor consultation (P=0.029), household work for 3-6 hours (P=0.001), maintaining same posture for > 5 hours (P=0.024), fear of changing job (P=0.036) and higher BMI (P=0.005). However, use of ergonomic chair, job advancement satisfaction, making radiography was negatively associated with LBP with P value=0.072, 0.022,0.005 respectively. LBP has an important prevalence amongoffice worker in Lebanon.
- Prevalence of Low Back Pain in Sitting Vs Standing Postures in Working Professionals in the Age Group of 30-60.(2017) by Divya Pillai et.al have stated in their study that 76% of individuals with sitting occupation and 70% of individuals with standing occupations experience low back pain. 63.15% of individuals with sitting occupations and 60% of individuals with standing occupations feel that improper ergonomics mightbe one of the causes of their low back pain.
- ➤ Aim and Objectives
- Aim

To study work related low back pain in sedentary railway officials of the age group 30 to 60 years at Chhatrapati Shivaji Maharaj Terminus, Mumbai.

- Objective
- ✓ To carry out a survey study on work related low back pain insedentary railway officials of age group 30 to 60 years.
- ✓ To study the level of disability of low back pain among railway officials.
- ✓ To study the affection of low back pain among males and females.
- Hypothesis
- Null

There is no marked significance in work related low back pain in sedentary railway officials of age group 30-60 years.

## > Alternate

There is significant prevalence of low back pain in railway officials of age group 30-60years.

# CHAPTER THREE METHODOLOGY

- Group C
- Technical Supervisors such as Senior Section Engineer, Section Engineer, Junior Engineer I & II
- Ministerial Staff, such as Chief Office Superintendent, Office Superintendent, Jr./Sr. Clerks). [8]
- Desk Job.
- $\rightarrow$  Age 30 to 60 years. [6]
- Those who were willing to participate in the study andready to fill the consent form.
- > Officials who maintained a regular office hours for atleast one year in railways. [5]
- > Exclusion Criteria:
- History of acute trauma to low back, recent condition of fall, etc. [9]
- Age below 30 and above 60 years.
- Known case of active infection e.g. TB Spine. [9]
- Pregnant females. [5]
- Breast feeding females & post-partum 6 months. [5]
- Previous surgical history (lumbar laminectomy, discectomy for herniated disc, etc.). [5]
- Degenerative and inflammatory condition (RA, OAetc.,). [5]
- Presently undergoing treatment /on medication for lowback pain.
- ➤ Materials:

Data Collection Sheet, Consent Form, Information Sheet, Pen.

> Outcome Measures:

Modified Oswestry Low Back Pain Disability Questionnaire

# CHAPTER FOUR PROCEDURE

- The study is going to be carried out on sedentary railway officials (Group C (i) &(ii)) on platform no.13 at Chhatrapati Shivaji Maharaj Terminus, Mumbai in the age group 30-60years
- Ethical clearance will be obtained from the ethical committee of Lokmanya Medical College of Physiotherapy, Kharghar, Navi Mumbai.
- $\triangleright$  Based on inclusion and exclusion criteria, a sample of (n=100) will be selected
- The objectives of the study will be explained to the subjects through an information sheet.
- The consent form will be filled by the subjects in presence of the examiner
- Subjects were asked to rate the occurrence of pain or discomfort in the low back with 4answering categories. [5]
- No Compliant b) Only once/a little c) Of short duration d) Frequently/Serious
- Subjects who answered "No compliant or "Only once/a little" on low back pain were classified as having NO Low Back Pain.
- Those who answered "Of short duration/some" or "Frequently/Serious" were classified as having complaints of Low Back Pain
- Age will be categorized in to 3 Groups.
- Group A- 30 to 40 years,
- Group B- 41 to 50 yearsGroup C-51 to 60 years
- Modified Oswestry Low Back Pain Disability Questionnaire will be administered to those subjects who complained of Low Back Pain.

Table 1 Modified Oswestry Low Back Pain Disability Questionnaire (MOLBPDQ)

COMPONENTS (10 items )												
Pain Intensity,	Standing											
Personal Care	Sleeping											
Lifting,	Social Life											
Walking,	Traveling											
Sitting,	Employment											

Total Score : 50

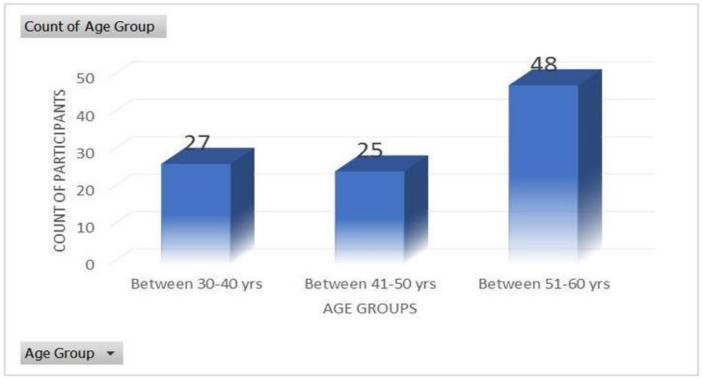
Table 2 Total Score

NO DISABILITY	0-4
MILD DISABILITY	5-14
MODERATE DISABILITY	15-24
SEVERE DISABILITY	25-34
COMPLETELY DISABLED	35-45

- Reliability and Validity:
- Gold standard scale for low back pain (To measure subject's functional disability). [12]
- Most reliable and valid scale. [10][11]
- Sufficient width scale to reliably detect improvement or worsening in most subjects.
- Cronbach's alpha value =  $0.90^{[10]}$

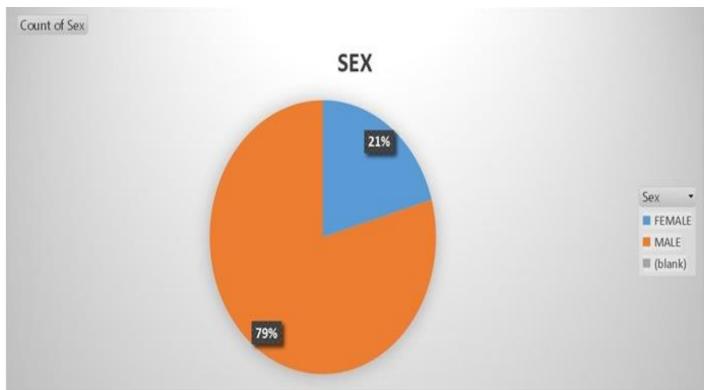
# CHAPTER FIVE DATA ANALYSIS AND RESULTS

A total of 100 Railway employees have participated in the above study.



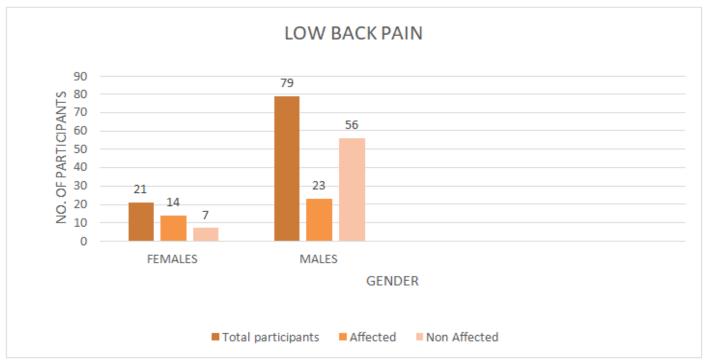
Graph 1 Age Group of Participants

# Interpretation: Majority of the participants reported for this study were in the agegroup of 51 to 60 years (*Total 48 participants*)



Graph 2 Gender of Participants

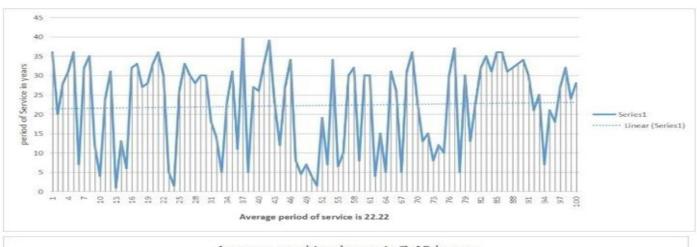
# Interpretation: Majority of the participants were male (Total 79 participants)



Graph 3 Low Back Pain in Males and Females

#### > Interpretation:

14 females were affected and 23 males were affected.

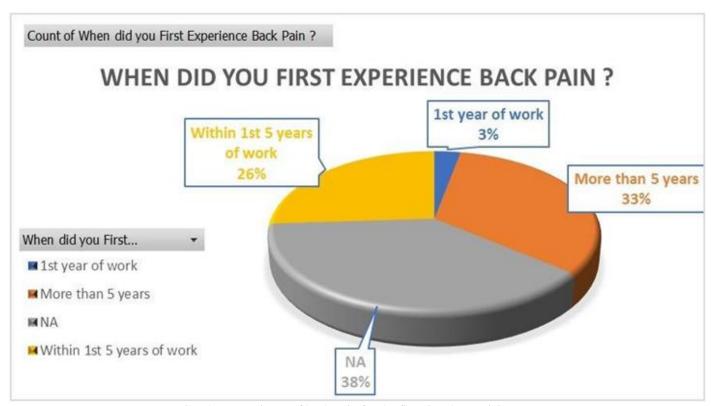




Graph 4 Average Period of Service and Average Working Hours Per Day

#### Interpretation:

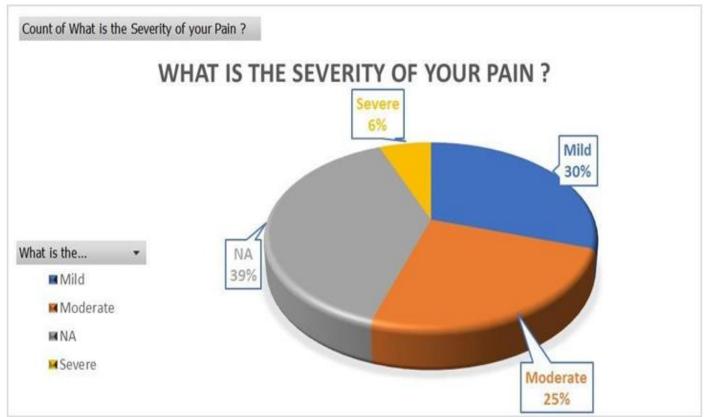
Average period of service is 22.22 years and average working hours is 7.45 hours per day.



Graph 5 Experience of back pain for the first time by participants.

#### Interpretation:

3% experienced back pain in 1<sup>st</sup> year of work, 26% within 5 years ofwork and 33% in more than 5 years of work



Graph 6 Severity of back pain in participants.

# Interpretation:

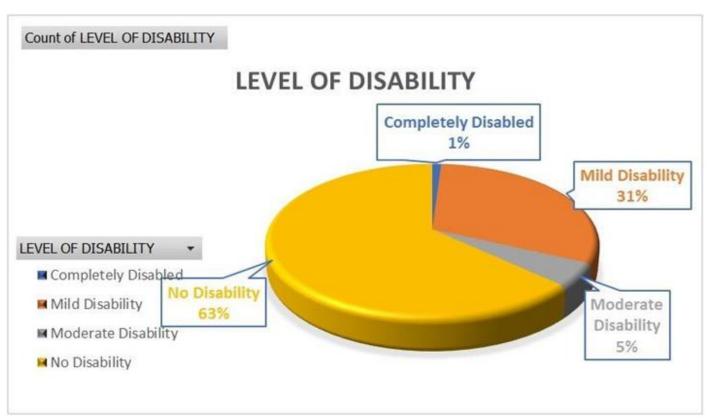
30% participants experienced mild pain, 25% experienced moderatepain and only 6% participants experienced severe pain.



Graph 7 Behavior of pain in participants.

#### > Interpretation:

53% of the participants experienced intermittent pain whereas 4% of theparticipants complained of constant pain.



Graph 8 Level of disability of pain in participants.

#### Interpretation:

31% of the participants experienced mild disability, 5% participants experienced moderate disability and only 1 participants was completely disabled.

# CHAPTER SIX DISCUSSION

Subject study was undertaken to determine the prevalence of low back pain among Railways official at Chhatrapati Shivaji Maharaj Terminus of Central Railway in the age group of 30 to 60 years. A total of 100 participants had given their consent for the subject study. Outof the above total participants, 79 were males and 21 were females. 27 participants were in theage group of 30 to 40 years, 25 participants of 40 to 50 years and 48 participants were of the age group of 50 to 60 years.

8 Participants (4 Males & 4 females) out of a total of 28 complained of LBP in the age group of 30 to 40 years, 11 participants (7 males & 4 females) out of total of 25 in the age group of 40 to 50 years & 18 participants (12 males & 6 females) out of a total of 47 complained of LBP in the age group of 50-60 years. Hence, it can be concluded that prevalence of low backpain was more among male participants in the all age groups. The main reason behind having LBP is related to the length of service of this officials, some of whom have given more than 25 years of service and the other reason being working in sitting position for long period of time i.e., around 4-5 hours continuously in one position.

Level of disability was sought from each participant and as per record, mild disability was observed in most of the cases. Around 31 participant out of a total of 37 affected participant have complained of mild disability.

Average period of service is 22.22 years and average working hours is 7.45 hours per day. However, those who put in more hours of service without rest have complained of low back pain Targeted work involving those officials who have to constantly feed data of all running train services which are updated from time to time, sitting in one single posture are themost affected. The pain in sitting posture may arise mainly because prolonged sitting can subject the spine to various stresses i.e., the discs have to withstand a lot of compressive forces and there is an increase in intradiscal pressure, which may lead to gradual creep of tissues (*Divya Pillai et.al.2018*) [6]. Similar study conducted by *P Shahul Hameed et al.2013* also relates to LBP among IT professionals in India who put in long working hours per week.

Severity of pain was observed and most of the participants have complained of mild ormoderate pain (Mild-30, Moderate-25) and only 6 participants have complained of severe LBP.

The behaviour of pain was mostly intermittent in most of the cases. Around 53 participants have complained of having low back pain intermittently as compared to 4participants having constant low back pain.

#### > Clinical Implication:

After the completion of this study, further approach is to provide awareness and educate them about ergonomics, proper posture, need for taking break in between continuous work & relaxation, as this will ultimately improve job satisfaction and performance.

#### > Future Scope:

Study should include other offices of different department with relation to their working postures.

# CHAPTER SEVEN CONCLUSION

- ➤ Based on the data collected by the researcher, it was concluded that 37 participants among 100 participants had complained of low back pain among which 23 were malesand 14 were females.
- Majority of participants were suffering from mild to moderate range of pain.
- Participants with low back pain showing the mild level of disability.
- Therefore my study concluded that more number of years given to service increased the severity of pain which increased the disability of the railway officials.

#### > Limitations

Disparity in volume of males and females. Study was limited to only Railway Officials of one Railway station of Mumbai only. Study included certain drawbacks regarding individual workload details and sitting ergonomics. The study does not cover consultation of doctor for pain.

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# **ANNEXURES**

## CONSENT FORM

Title: - "Work related low back pain in sedentary rails Maharaj Terminus, Mumbai- A Survey Study."	vay officials of the age group 30 to 60 years at Chhatrapati Shivaji
PARTICIPANTS: - I confirm that	(investigator) has explained me thepurpose of the fits that I may experience. I have read and understood this consent to
Name: -	Date: -
Signature: -	
INVESTIGATOR: -	
I have explained to	the purpose of the benefits to the best of my ability. I have made every effort to make
Date: -	

#### INFORMATION SHEET

The study titled "Work related low back pain in sedentary railway officials of the age group 30 to 60 years at Chhatrapati Shivaji Maharaj Terminus, Mumbai-A Survey Study."" is being conducted by Miss Sudiksha D Rathod a final year student of TMV's Lokmanya Medical College of Physiotherapy, Khargharunder the guidance of Dr. Tejal Pardeshi (Assistant Professor)

The purpose of this survey study is to find work related low back pain in sedentary railway officials of the age group 30 to 60 years with the help of Modified Oswestry Low Back Pain Disability Questionnaire.

You will be forwarded a set of questions that will help us to survey *Low BackPain* in your population.

Your information will be kept private and confidential throughout & even after the survey.

You are neither liable to any remuneration for any of the procedure mentioned above nor would you be remunerated for any during course of the research.

The nature & course of this study is explained to you.

We would like to appreciate your time & contribution into our study.

Thanking you for your time and participation.

## DATA COLLECTION SHEET

SE	RIAL NUMBER: INTERVIEW:
DA	TE OF
>	Demographic Information
•	NAME :
•	DESIGNATION UNDER GROUP C :
•	AGE :
•	SEX :
•	EDUCATIONAL QUALIFICATION :
•	CONTACT NO. :
•	PERIOD OF SERVICE IN YEARS :
•	WORKING HOURS :
•	NUMBER OF BREAKS DURING WORK:
>	Back Pain Related Quesitons:
•	Have you Experienced Back Pain?
	$\ \square$ No Complaint $\ \square$ Only once/a little $\ \square$ of short duration $\ \square$ Frequently/Seriou
•	When did you First Experienced Back Pain?
	$\square$ 1st Year of work $\square$ Within first 5 years of work $\square$ More than 5 years
•	What is the behavior of your Pain?
	☐ Constant ☐ Intermittent ☐ Not applicable
•	What is the Severity of your Pain?
	□ Mild □ Moderate □ Severe
•	Have you Experienced any Trauma in your Back?
	U Yes U No

## Modified Oswestry Low Back Pain Disability Questionnaire<sup>a</sup>

This questionnaire has been designed to give your therapist information as to how your back pain has affected your ability to manage in everyday life. Please answer every question by placing a mark in the **one** box that best describes your condition today. We realize you may feel that two of the statements may describe your condition, but **please mark only the box that most closely describes your current condition.** 

Pain Intensity	Sitting
☐ I can tolerate the pain I have without having to use	I can sit in any chair as long as I like.
pain medication.	I can only sit in my favorite chair as long as I like.
☐ The pain is bad, but I can manage without having	Pain prevents me from sitting for more than 1 hour.
to take pain medication.	Pain prevents me from sitting for more than
☐ Pain medication provides me with complete relief	1/2 hour.
from pain.	Pain prevents me from sitting for more than
☐ Pain medication provides me with moderate relief	10 minutes.
from pain.	Pain prevents me from sitting at all.
☐ Pain medication provides me with little relief	
from pain.	Standing
☐ Pain medication has no effect on my pain.	I can stand as long as I want without increased pain
	☐ I can stand as long as I want, but it increases
Personal Care (e.g., Washing, Dressing)	my pain.
☐ I can take care of myself normally without causing	☐ Pain prevents me from standing for more than
increased pain.	1 hour.
☐ I can take care of myself normally, but it increases	☐ Pain prevents me from standing for more than
my pain.	1/2 hour.
☐ It is painful to take care of myself, and I am slow	☐ Pain prevents me from standing for more than
and careful.	10 minutes.
☐ I need help, but I am able to manage most of my	☐ Pain prevents me from standing at all.
personal care.	- Tum prevents the from standing at an
☐ I need help every day in most aspects of my care.	Sleeping
☐ I do not get dressed, I wash with difficulty, and I	☐ Pain does not prevent me from sleeping well.
stay in bed.	☐ I can sleep well only by using pain medication.
	☐ Even when I take medication, I sleep less than
Lifting	6 hours.
☐ I can lift heavy weights without increased pain.	☐ Even when I take medication, I sleep less than
☐ I can lift heavy weights, but it causes increased pain.	4 hours.
☐ Pain prevents me from lifting heavy weights off	☐ Even when I take medication, I sleep less than
the floor, but I can manage if the weights are	2 hours.
conveniently positioned (e.g., on a table).	☐ Pain prevents me from sleeping at all.
☐ Pain prevents me from lifting heavy weights, but	a ram prevents me from steeping at an.
I can manage light to medium weights if they are	Social Life
conveniently positioned.	☐ My social life is normal and does not increase
☐ I can lift only very light weights.	2 여자 이번 글 이번째를 그렇게 살아가면 그리고 있다. 얼마나 이와 아니라 아니라 아니라 아니라 아니라 아니라 모르는 다리 하고 하는 아니라 모르다 아니라
☐ I cannot lift or carry anything at all.	my pain.  My social life is normal, but it increases my level
- 1 camor int or carry anything at an.	는 기계를 하는 것이 있다면 있다면 있다면 하는데 이 경우 아이들은 사람들이 되었다면 하는데
Walking	of pain.
☐ Pain does not prevent me from walking any distance.	Pain prevents me from participating in more
☐ Pain prevents me from walking more than 1 mile.	energetic activities (e.g., sports, dancing).
(1 mile = 1.6 km).	Pain prevents me from going out very often.
Pain prevents me from walking more than 1/2 mile.	<ul> <li>Pain has restricted my social life to my home.</li> <li>I have hardly any social life because of my pain.</li> </ul>
Pain prevents me from walking more than 1/2 mile.	i have hardry any social me occause of my pain.
☐ I can walk only with crutches or a cane.	
- cur man only man visited of a cure.	

Please complete questionnaire on other side.

☐ I am in bed most of the time and have to crawl to

the toilet.

Traveling  ☐ I can travel anywhere without increased pain. ☐ I can travel anywhere, but it increases my pain. ☐ My pain restricts my travel over 2 hours. ☐ My pain restricts my travel over 1 hour. ☐ My pain restricts my travel to short necessary journeys under 1/2 hour. ☐ My pain prevents all travel except for visits to the physician / therapist or hospital.	Employment / Homemaking  My normal homemaking / job activities do not cause pain.  My normal homemaking / job activities increase my pain, but I can still perform all that is required of me.  I can perform most of my homemaking / job duties, but pain prevents me from performing more physically stressful activities (e.g., lifting, vacuuming).  Pain prevents me from doing anything but light duties.  Pain prevents me from doing even light duties.  Pain prevents me from performing any job or homemaking chores.							
FOR OFFICE USE ONLY  Score: /50 x 100 =% points	cause pain.    My normal homemaking / job activities increase my pain. estricts my travel over 2 hours. estricts my travel to short necessary under 1/2 hour. revents all travel except for visits to the / therapist or hospital.    My normal homemaking / job activities increase my pain, but I can still perform all that is required of me.   I can perform most of my homemaking / job duties, but pain prevents me from performing more physically stressful activities (e.g., lifting, vacuuming).   Pain prevents me from doing anything but light duties.   Pain prevents me from performing any job or homemaking chores.    E USE ONLY   100 =% points   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from performing any job or homemaking chores.   Pain prevents me from doing even light duties.   Pain preven							
statement is marked it = 5. If all ten sections are completed  Example: $16 \text{ (total scored)}$ 50 (total possible score) x $100 = 32$ If one section is missed or not applicable the score is calculated total scored) $16 \text{ (total scored)}$ 45 (total possible score) x $100 = 35$	the score is calculated as follows: % ated:							
Name:	Date:							

Source: Fritz JM, Irrgang JJ. A comparison of a modified Oswestry Low Back Pain Disability Questionnaire and the Quebec Back Pain Disability Scale. Physical Therapy. 2001;81:776-788.

<sup>a</sup>Modified by Fritz & Irrgang with permission of The Chartered Society of Physiotherapy, from Fairbanks JCT, Couper J, Davies JB, et al. The Oswestry Low Back Pain Disability Questionnaire. *Physiotherapy*. 1980;66:271-273.

## MASTER CHART

Sr.n o	Designatio n ▼		Age Group	Sex	Period of service (in Years)	ng Hour s	er of	Experienced Back Pain ?	When did you First Experien ce Back Pain ?		What is the	Have you Experienc ed any trauma in your Back ?  •	LOW BACK	LEVEL OF DISABILI TY
1	POWER CONTROLL ER	59	Betwe en 30- 40 yrs	MALE	36	8	2	No complaints	NA	NA	NA	NA	0	No Disability
2		44		MALE	20	8	2	Of short duration	More than 5 years	Intermitt ent	Modera te	No	14	Mild Disability
3	TLC HQ	49		MALE	28	8	2	Of short duration	More than 5 years	NA	Mild	No	16	Moderate Disability
4			en 51- 60 yrs	MALE	31	8	2	No complaints	NA	NA	NA	NA	0	No Disability
5	INSP.		en 51- 60 yrs	MALE	36	4:30	1	No complaints	NA	NA	NA	NA	0	No Disability
6	SR. CLERK	33	Betwe en 30- 40 yrs	MALE	7	9	2	No complaints	NA	NA	NA	NA	0	No Disability
7	CLI HQ	52	Betwe en 51- 60 yrs	MALE	32	9	2	Frequently/seri ous	More than 5 years	Intermitt ent	Modera te	No	7	Mild Disability
8	CTLC/HQ		en 51- 60 yrs		35	9	2	Only Once or a little	More than 5 years	Intermitt ent		No	0	No Disability
9	M/F.I	37	Betwe en 30- 40 yrs	MALE	12	8	2	Only Once or a little	Within 1st 5 years of work	Intermitt ent	Mild	No	4	No Disability
10	SR.ALP	38	Betwe en 30- 40 yrs	MALE	4	9	2	No complaints		Intermitt ent	Mild	No	0	No Disability
11	GENERAL ASSTT.	43	Betwe en 41- 50 yrs	MALE	24	9	2	Only Once or a little	Within 1st 5 years of work	Intermitt ent	Mild	No	5	Mild Disability
12		51	Betwe en 51- 60 yrs	MALE	31	8	5	Only Once or a little	Within 1st 5 years of work	Intermitt ent	Modera te	No	11	Mild Disability
13			en 30- 40 yrs	MALE	1	9	2	No complaints	Within 1st 5 years of work	Intermitt ent	Mild	No	3	No Disability
14	LPG	38	Betwe en 30- 40 yrs	MALE	13	9	2	Only Once or a little	Within 1st 5 years of work	Intermitt ent	Mild	No	3	No Disability
15	SR. SECTION	35	Betwe en 30-	MALE	6	8	1	No complaints	NA	NA	NA	NA	0	No Disability

	ENCINEED		40 rms											
1.0	ENGINEER	5.0	40 yrs	EEM (A	22	0		Of the state of the	M	T	N	NT.	12	M:1.1
16	PS-2	56		FEMA	32	9	2	Of short duration	More	Intermitt		No	13	Mild
			en 51-	LE					than 5	ent	te			Disability
1.7	CILOG		60 yrs	) ( A T E	22	0		NT 1 1 1 1 1	years	27.4	27.4	27.4	0	NT.
17	CH.OS.	57		MALE	33	9	2	No complaints	NA	NA	NA	NA	0	No
			en 51-											Disability
			60 yrs											
18	GENERAL	45		MALE	27	9	2	No complaints	NA	NA	NA	NA	3	No
	ASSTT.		en 41-											Disability
			50 yrs											
19	SSE	55	Betwe	MALE	28	9	2	Frequently/seri	Within	Intermitt	Modera	No	14	Mild
			en 51-					ous	1st 5	ent	te			Disability
			60 yrs						years of					
									work					
20	SSE	59	Betwe	MALE	33	9	2	Of short duration	More	Intermitt	Mild	No	12	Mild
	~~-		en 51-				_		than 5	ent				Disability
			60 yrs						years	Circ				Disability
21	CHEIF OS.	56		EEMA	36	8:30	2	Only Once or a	More	NA	Mild	No	7	Mild
21	CHEIF OS.	50	en 51-	LE	30	0.30	2	little	than 5	INA	Willu	110	,	Disability
			60 yrs	LL				Ittic						Disability
22	SR.	52		FEMA	30	8	1	Enagy antly/gani	years More	Intermitt	Madana	No	8	Mild
22	SECTION	33			30	0	1	Frequently/seri				NO	0	
			en 51-	LE				ous	than 5	ent	te			Disability
	ENGINEER	2.5	60 yrs	TTT 1		0		0.1.0	years	27.1	3 511 1			27
23	GENERAL	36			5	8	2	Only Once or a	Within	NA	Mild	No	1	No
	ASSTT.		en 30-	LE				little	1st 5					Disability
			40 yrs						years of					
									work					
24	JR.	30	Betwe	MALE	1.5	8	1	No complaints	NA	NA	NA	NA	0	No
	ENGINEER		en 30-											Disability
			40 yrs											
25	GENERAL	48	Betwe	MALE	26	8:30	2	No complaints	NA	NA	NA	NA	0	No
	ASSTT.		en 41-					•						Disability
	ELE.		50 yrs											
26	GENERAL	51		MALE	33	10	2	Of short duration	More	Intermitt	Modera	No	14	Mild
	ASSTT.	-	en 51-				_		than 5	ent	te			Disability
	110011.		60 yrs						years	Circ	10			Disacinty
27	SR.	50		MALE	30	10	2	Of short duration	More	Intermitt	Mild	No	5	Mild
	TRANSLAT		en 41-	WIALL	30	10	2	Of short duration	than 5	ent	Willa	110	3	Disability
	OR		50 yrs							CIIt				Disability
28	PS-2	52		MALE	28	8:30	2	Only Once or a	years NA	NA	NA	NA	0	No
20	PS-2	32		MALE	20	8:30	2		NA	INA	INA	NA	U	
			en 51-					little						Disability
20	OII CC	4.0	60 yrs	DD3.6.	20			T .* / *	1.7	C	C	» T	10	1 1
29	CH.OS.	48		FEMA	30	9	2	Frequently/seri		Constant	Severe	No	19	Moderate
			en 41-	LE				ous	than 5					Disability
			50 yrs						years					
30	PS-2	53		FEMA	30	9	2	Of short duration	More	Intermitt		Yes	12	Mild
			en 51-	LE					than 5	ent	te			Disability
			60 yrs						years					
31	KHULSHI	47	Betwe	MALE	18	10	2	Only Once or a	More	Intermitt	Mild	No	6	Mild
			en 41-					little	than 5	ent				Disability
			50 yrs						years					
32	KHULSHI	32		MALE	14	8	2	No complaints	NA	NA	NA	NA	0	No
			en 30-					1						Disability
			40 yrs											
33	SSE/4	34		MALE	5	9	2	No complaints	NA	NA	NA	NA	0	No
	DDL/T	-	en 30-	1111 1111	3		2	110 complaints	11/1	1 1/1	11/1	1 1/1		Disability
			40 yrs											Discounty
34	SR. CLERK	15		MAID	23	9	2	Of short duration	More	Intermitt	Modore	No	10	Mild
34	or. CLEKK	43	en 41-	WIALE	23	)	7	or short duration				TNO	10	Disability
									than 5	ent	te			Disability
25	CHETE OF	50	50 yrs	DDN#A	21	0	1	Of about 1 1	years	Test - ··· · · · · · · ·	Mad	NT.	10	) A f:1 1
35	CHEIF OS.	33	Betwe	гЕМА	31	9	I	Of short duration	More	Intermitt	Modera	No	10	Mild

													10011110	2430-2103
			en 51- 60 yrs	LE					than 5 years	ent	te			Disability
36	TECH-1	33		MALE	11	8	2	No complaints	NA	NA	NA	NA	0	No Disability
37	CHEIF OS.	58	Betwe en 51- 60 yrs	MALE	39.5	9	2	Of short duration	More than 5 years	Constant	Severe	No	21	Moderate Disability
38	SSE	35	Betwe en 30- 40 yrs	MALE	5	10	2	Only Once or a little	Within 1st 5 years of work	Intermitt ent	Mild	No	2	No Disability
39	SSE / ELE.	56	Betwe en 51- 60 yrs	MALE	27	8:30	2	No complaints	NA	NA	NA	NA	0	No Disability
40	SSE / ELE.		Betwe en 51- 60 yrs	MALE	26	9	2	No complaints	NA	NA	NA	NA	2	No Disability
41	MTR-2	55	Betwe en 51- 60 yrs	MALE	33	9	2	Of short duration	More than 5 years	Intermitt ent	Modera te	No	13	Mild Disability
42	CH.OS.	59	Betwe en 51- 60 yrs	FEMA LE	39	9	1	No complaints	NA	NA	NA	NA	0	No Disability
43	SR. SECTION ENGINEER	51	Betwe en 51- 60 yrs	MALE	23	8	1	No complaints	NA	NA	NA	NA	0	No Disability
44	EF	38		MALE	12	8	1	No complaints	NA	NA	NA	NA	3	No Disability
45	GENERAL ASSTT.	50		MALE	27	9	1	Of short duration	Within 1st 5 years of work	Intermitt ent	Modera te	No	7	Mild Disability
46	SSE / ELE.	58	Betwe en 51- 60 yrs	MALE	34	10	2	Only Once or a little	More than 5 years	Intermitt ent	Mild	No	3	No Disability
47	SR. SECTION ENGINEER	39	Betwe en 30- 40 yrs	FEMA LE	8	8:30	1	Of short duration	Within 1st 5 years of work	ent	Mild	No	4	No Disability
48	SSE	32	Betwe en 30- 40 yrs	MALE	4.5	8:30	1	Of short duration	Within 1st 5 years of work	Intermitt ent	Modera te	No	10	Mild Disability
49	SR. SECTION ENGINEER	31	Betwe en 30- 40 yrs	FEMA LE	7	8:30	1	Of short duration	Within 1st 5 years of work	Intermitt ent	Mild	No	2	No Disability
50	KHALAS T	34	Betwe en 30- 40 yrs	FEMA LE	4 MONT HS	8	1	Of short duration		Intermitt ent	Modera te	No	6	Mild Disability

														2430-2103
Sr.			Age Grou	Sex	od of	ng Hour	Brea	Experienced Back Pain ?	did you First	Behavio	is the Severi	ced any	OSWESTRY LOWBACK DISABILITY QUESTIONN AIRE SCORE	LEVEL OF
<b>&gt;</b>	•	<b>&gt;</b>	p	V	servi ce (in Year s)	<b>v</b>	ks	v	Experie nce Back Pain ?	r of your pain ?	ty of your Pain ?	trauma in your Back ?	(OUT OF 50)	ITY
51	JE/TLAC	51	Betwe en 51- 60 yrs	MALE	1.5	9	1	Of short duration	1st year of work	NA	Mild	No	3	No Disability
52	DYCEE/TRD/ NO		en 41- 50 yrs		19	9	1	No complaints	NA	NA	NA	NA	0	No Disability
53	SSE	45	Betwe en 41- 50 yrs	MALE	7	8:30	2	Of short duration	Within 1st 5 years of work	Intermit tent	Mild	NA	11	Mild Disability
54	SR. SECTION ENGINEER		Betwe en 51- 60 yrs		34	8:30	1	Of short duration	More than 5 years	Intermit tent	Mild	No	4	No Disability
55	CH.OS.	55	Betwe en 51- 60 yrs	MALE	6.5	8	1	Only Once or a little	Within 1st 5 years of work	Intermit tent	Mild	No	10	Mild Disability
56	EFI	34	Betwe en 30- 40 yrs		10	10	2	Of short duration	Within 1st 5 years of work	Intermit tent	Mild	No	10	Mild Disability
57	SSE		Betwe en 51- 60 yrs	MALE	30	9	2	Frequently/se rious	More than 5 years	Intermit tent	Severe	Yes	14	Mild Disability
58	SSE	59		MALE	32	9	1	Only Once or a little	NA	NA	NA	NA	0	No Disability
59	SR. SECTION ENGINEER	33	Betwe en 30- 40 yrs	FEMA LE	8	9	2	Of short duration	More than 5 years	Intermit tent	Moder ate	No	13	Mild Disability
60	M/MAN	53		MALE	30	9	2	Only Once or a little	Within 1st 5 years of work	Intermit tent	Moder ate	No	7	Mild Disability
61	M/MAN	53	Betwe en 51- 60 yrs	MALE	30	9	2	Only Once or a little	Within 1st 5 years of work	Intermit tent	Mild	No	2	No Disability
62	KHALASI	32	Betwe en 30- 40 yrs		4	8	1	No complaints	NA	NA	NA	NA	0	No Disability
63			Betwe en 41- 50 yrs	MALE		8	2	Only Once or a little	1st 5 years of work	Intermit tent		No	0	No Disability
64	OFFICE ASSISTANT		en 30- 40 yrs			9	1	No complaints	1st year of work	NA	NA	NA	0	No Disability
65	CELE/CENTR AL RAIL.	54	Betwe en 51- 60 yrs		31	8	1	No complaints	NA	NA	NA	NA	0	No Disability

													1991/10	0:-2456-2165
66	OS/PERSONN EL	49	Betwe en 41- 50 yrs	LE	26	9	2	Only Once or a little	Within 1st 5 years of work	Intermit tent	Mild	No	8	Mild Disability
67	SATAIWALA		en 51- 60 yrs	LE	5	8	1	No complaints	NA	NA	NA	NA	0	No Disability
68	SR. TRANSLATO R		en 51- 60 yrs			8	1	No complaints	NA	NA	NA	NA	0	No Disability
69	SR. TRANSLATO R		en 51- 60 yrs		36	8:30	1	No complaints	NA	NA	NA	NA	0	No Disability
70	KHALASI	42	Betwe en 41- 50 yrs	MALE	23	8	1	Only Once or a little	More than 5 years	Intermit tent	Mild	No	3	No Disability
71	COSTABLE	31	Betwe en 30- 40 yrs	1	13	8	1	No complaints	NA	NA	NA	No	0	No Disability
72	PEON	35	Betwe en 30- 40 yrs		15	8	1	Of short duration	More than 5 years	Intermit tent	Moder ate	No	3	No Disability
73	PEON	31		MALE	8	8	1	No complaints	NA	NA	NA	NA	0	No Disability
74	PEON	44		FEMA LE	12	8	1	Of short duration	More than 5 years	Intermit tent	Severe	No	11	Mild Disability
75	KHALASI	44		FEMA LE	10	8	1	Frequently/se rious		Constan t	Severe	No	15	Moderate Disability
76	SIPF	49		MALE	30	12	1	Only Once or a little	More than 5 years	Intermit tent	Mild	No	0	No Disability
77	SR CLERK	60		MALE	37	8	2	No complaints	NA	NA	NA	NA	0	No Disability
78	PEON	35	Betwe en 30- 40 yrs	MALE	5	8	2	No complaints	NA	NA	NA	NA	0	No Disability
79	PEON	53		FEMA LE	30	9	2	Of short duration	More than 5 years	Intermit tent	Moder ate	No	4	No Disability
80	PEON	33		MALE	13	8	1	Only Once or a little		Intermit tent	Mild	No	3	No Disability
81	OS	41	Betwe en 41- 50 yrs	1	23	8	1	Only Once or a little	Within 1st 5 years of work	Intermit tent	Mild	No	6	Mild Disability
82	SSE/ENGINEE RING	54	Betwe en 51- 60 yrs	-	32	8	1	Only Once or a little		Intermit tent	Moder ate	No	15	Moderate Disability
83	CTI	56	Betwe en 51- 60 yrs		35	8	1	Only Once or a little		Intermit tent	Moder ate	No	10	Mild Disability
84	OS/PERSONN EL	51	Betwe en 51-	1	31	9	2	No complaints	NA	NA	NA	NA	0	No Disability

			T	1 1			1	1	T		I			J2430-2103
			60 yrs											
85	GENERAL ASSTT.		Betwe en 51- 60 yrs	MALE	36	9	2	Of short duration	More than 5	Intermit tent	Moder ate	No	4	No Disability
86	SSE			MALE	36	9	2	Of short duration	More than 5 years	Intermit tent	Moder ate	No	2	No Disability
87	CLT			MALE	31	9	2	Of short duration	More than 5 years	Intermit tent	Mild	No	3	No Disability
88	SSE	53		MALE	32	8	2	No complaints	NA	NA	NA	NA	0	No Disability
89	CH.OS.	56		FEMA LE	33	8	1	Of short duration	More than 5 years	Intermit tent	Mild	No	3	No Disability
90	HQ	54		MALE	34	9	2	No complaints	NA	NA	NA	NA	0	No Disability
91	CLE/HQ	55		MALE	30	9	2	No complaints	NA	NA	NA	NA	0	No Disability
92	LPP	45		MALE	21	8	1	No complaints	NA	NA	NA	NA	0	No Disability
93	CHIEF CO INSPET.	46		MALE	25	9	3	No complaints	NA	NA	NA	NA	0	No Disability
94	SSE	34		MALE	7	8	2	Frequently/se rious	Within 1st 5 years of work	Constan t	Moder ate	Yes	5	No Disability
95	CTPC/HQ/CR		Betwe en 41- 50 yrs		21	8	-	Frequently/se rious		Intermit tent	Severe	Yes	35	Completel y Disabled
96	KHALASHI	48		FEMA LE	18	9	2	Of short duration	More than 5 years	Intermit tent	Moder ate	No	6	Mild Disability
97	OS	54		MALE	27	9	2	No complaints	NA	NA	NA	NA	0	No Disability
98	SSE			MALE	32	9	2	No complaints	NA	NA	NA	NA	0	No Disability
99	JR CLERK	46		FEMA LE	24	9	2	No complaints	NA	NA	NA	NA	0	No Disability
100	LPM	49		MALE	28	9	2	Only Once or a little	Within 1st 5 years of work	Intermit tent	Moder ate	No	7	Mild Disability