1.3.2 Average percentage of courses that include experiential learning through project work/fieldwork/internship during last five years

# Link to Sample Project



- 1. Link to Sample Project Bengali
- 2. Link to Sample Project **English**
- 3. Link to Sample Project Geography
- 4. Link to Sample Project **BBA**
- 5. Link to Sample Project **BCA**
- 6. Link to Sample Project **Economics**
- 7. Link to Sample Project **Environmental Studies**
- 8. Link to Sample Project Political Science

# Bengali

# KAZI NAZRUL UNIVERSITY

# B.A PROGRAM 6th SEMESTER EXAMINATION 2023

PROGRAM IN BENGALI



REGISTRATION NO. :- KNU20103002779

SESSION := 2020-21

ROLL NO. := 1032005111003134 (5th SEM)

SUBJECT : BENGALI

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Page No.

नेस्त्रिक्त र्रिंग्ला(यात वधिवणाम व्यातवणावाम् । श्वाकी मन्द्रकल क्रिलाहा व्हिलम श्रावण श्वानवजाना । लिख् मनी भित्रवात्व वर्षान् नवाकत्त क्रिजाह्य हिल्लन क्षाकृष्ठ आनवात्वात्वात् हाथा इर्पका। प्राप्त कार्व क्षाकृष्ट वर्षका क्षाकृष्ट क् भारतार शहान अर्वशासन वासमान क्षाम्य आयाष्ट्रन । सर्वाकाल पर्याकाम क्रिया यातवार्य-नामी अरुवान वालामन कल्यातान कावा क्रावापून । दिनि अकल्या निराम यातवार्य-नाभी क्रमाक् अवतः क्रांगिन्तन।

(मिर्टिश माग्र ब्रेटिड हामगत्म (धारि धारिया), " दमगत्म ब्रुक नर्माहरू " जिथ्न मगति नम्म कर्म र्थ्याम मिलान ६वस ज्ञानवर्ण वस्ति। सिनीविट ज्ञानवर्णाः भारकः मग्रा बनाव निकार देशामा वितान ६वस ज्ञानवर्णाः वस्ति। सिनीविट ज्ञानवर्णाः भारतः नज्या बन्नाक जिल्ला श्रीकाशः (बीनेपानापन जिल्लान शरूराव श्रीपाक जातवानः) सर्वादः नज्या बन्नाक जिल्ला श्रिकाशः (बीनेपानापन जिल्लाना शरूराव श्रीपाक जातवानः) एक्ष्रकास्त । त्या बन्नाल क्रिया विश्वास्त कार्यात कार्यात क्ष्मित विद्या विद्या । त्या विद्या । विद्या विद्या सद्याद , निर्मासन प्रत्ये कर्यात अस्याद प्राया क्ष्मित निर्माण विद्या । प्राया विद्या । ग्रामित क्ष्मित विद्या । प्राया विद्या । व्याप्त विद्या विद्या । विद्या विद्या विद्या । विद्या विद्या विद्या विद्या । विद्या विद्या

कानविष्ठ । अवस्थालकं व्यात्रका व्यात्रका का क्षेत्रका । ज्ञातविष्ठा । ज्ञातविष्ठां । ज्ञातविष्ठां । ज्ञातविष्ठां व्यात्रकां । ज्ञानविष्ठां व्यात्रकां व्यात्यकां व्यात्रकां व्य

ज्ञानकार भागः निद्याण जित्य काली नस्कृत क्रिलाज ऋति देशिक्त विद्यारी । विद्यारम् बीनाम् वर्गानिएमण्डि द्यानवणम् स्रवाहा छित्रिन तर्छ न्तिन् गारम् द्यारम् वर्षेत्र रामने वर्गानिएमण्डि द्यानवणम् स्रवाहा छित्रीन तर्छ न्तिन् व्यासम्बर्धाः द्यारम् वर्षेत्रं रामने वर्गानीमने , त्यार्थ निकालिए व्यानुमापनेताः वर्षमार्थः वर्षमार्थः वर्णानाणः विनि व्यासम्बर् न्तिश्चाणून :-

वल बीव -

बल दन्न धारा भन्ता । क्वान लाशने जायानि नठ न्वान छी क्वाधन दियादिन ! [निफारी]

४ व्या ह्यारि वजवाजाकावी हिन विन्छि ग्रानूश्व कामा एपन कार्व वस्तुकलाण्य इ. इ. व्यापा । ठावात्वव (वननाव वीत तिरम्ब इमग्र वीताग्र वानिएम कार्मी नमकल र्वज्ञानाम (ज्ञानाष्ट्रते (३क भव्य ज्ञानवजानाही।

Gगांबि बिक्किण काषा भथवात्री *पित श्*रशाता राज भीषा(कात्र) जािंक जनगानित्व नग्य (वहना , विद्य-व्याला , श्रियः नाविद्याह द्वरकािंक (थार । [पन्छाशी]

विद्या (याक शिका) (इस्क शिका) (याक विद्या । इतिए। वर्गान व्याना नित्य (या विद्यापत द्यान व्यान दिवन विद्या (शिक विदेश प्रान्त विद्या वर्गान विद्या वर्गान विद्या वर्गान वर्यान वर्गान व क्रमल प्रमानिक शला कित काम शर्म एक दिन , तार्र दिन विगता क्रिकार Gवरावी जान विभीएन करता जानाव ना तवान निक्याय ज्ञानुमाक, यहि दिन

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विस्तानिक क्षिन्त (यान क्यांना गाव वा छात्र छावयाना गांगाउर। थाव दें दु की पिराज्य (छान् में (बान् ज्याकरायका गाठाएं प्रमियनमा, अन्।हाहीर धारत दूरभात तीहरून दूराय रात्राचा, विराम्यी उन अगल, Gराधि (अर्थिन एवं कवान् । [निएनरि]

क्रावासीयत दिए याता हरिस्मान (प्राप्त विद्या हाएन आग्रह दिल्लन नवाक्न जामन क्रीनेकान क्रामान क्षान भेष्ठ छामना :-

एकार्डम रीत केन्द्रक ब्राम श्रीकृत दिवसान, र्द्यातन भारत नित्व देख ज्याता दित्व देख अभिनात । [कानुनि देखिताति]

काकी महाकल क्रिलाम ज़िलन (३० छात्राधीनन ज्ञाननहारामी वर्गन । बन कराजी की-वर्ग निर्मिकाम प्रव प्राजामव शामा है।व वृतक प्रानाह वर्ष । एमी वरान त्याकार्ष्ट् क्षान व्यवस्था । वार्वर भूकियानान क्षान कालुनि पूर्वकाया वर्धनवाय :-

चित्र ना ७३७ इत्रालम ? ७६ विन्छगात्र वयन वयन ? कालावें। रत्न , द्वीराष्ट्र आवृद्य , प्रायुष्टा (घात घात । [कालावी द्वेरिकागाव]

बारजान है। इंग्रजूस (उएए वह विद्ध सम्री , सम् विद्ध संस्कृतान् वराष्ट्र किल सा - २ ग्रारी

आदि शास्त्रात जान -ज्ञानूरसर्व (इएए वज़ निक्रू नार्व , नात्र विषकु जारीपान , तार्षे ७७४ वनान भारते १८५ - ठाएम वी कार्जि, डाव ८५१मा डाव स्थान शाह घाड़ छिन्न कानुएव सुगर्जे । [बातूस]

नम्बन्धालव कगाकु ह्यानबएउ२ किल ब्लाइएव त्रकल विक्रूब हाईए७७ निवछ। () इसिक देवा द्याला (१ वर्ष देवा द्याला १) १ ३ द्यारा वर्ष - (१३) वि व्यासनी (१०० द्यान वर्णाती ें। कविजाक कार्वाक् जावल श्रूथ-भागे:-

एउ माजाएउ यह भीतक श्रूषा वस्तालय, 🗗 (७२०%) विस्तु हुद्ध (५००३ हास भवित् स्तु । [मानुस]

५विद्रभीदिए मानुष्यव धना प्रहुल ननकालव (उक्किम व्याजव १५४) ; व्हिन्द्रमान भूति किल जन (भग्नामा) क्षेत्र । नसकल द्वाल कन्नाजन - व्हिन्द्रभान (नाकार्य पार्वतः एत्रण जाणान मानूषात् द्वात् । शिकुरुवातः जाहात्यां मान्तरे एकवार्यः जाहाता ।

(छाजान (लाजन, युष्ठा ह्या भारत रिल्डान यूर्विट हिल्म, द्वारी क्रिया वर्ष गान क्रिया क्रीज एनवात एक्राज्यन । [मानुष]

हानी त्रवारे छात्र जाजात काथा - दिहात छाद्रवाद्यात ग्रज सस्तर्भनाव ग्रासवणास्क । नामी ज्ञाकात्र जात ज्यार या नामी- जाभी जाव (आव लान , क्रांव (आव लाई । [भाष ]

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यानूष्यत् कायाम् क्लामण्य कृतामी लगाकल देशलामा, श्राविमामण क्याप्य कर्त्वति (कार्य द्रुल । ब इनल्लव नाना ठीमात्रीत अस्मिति। छात्व छानात्वत छाना।एत विकृष्ट्य जरूराजायम् । १५६वराम् हात् " कृतिन असूर " वर्धवान ।

हानग्राम (जामान (जाम निर्मालन अप) युन्ति भावनीन कामी नमकुल । उदि (ठा नस्मुम्पलन राज्याम जानग्राम (५७ तामग्राम, ज्ञानग्राम विस्प्रमीका निर्माम (५७) विखार । कार्र कोर्ट तम , विलाव कारान लिविनिक्त्र काएका कानगणन नाना धार्मना कार्यावन NATADOY/

"क्री दिनीय दिनि ज्ञाधा जब ठाठाराग्र जाहान . कारत छिटिकार , बाह्य हाछ , दराहि जिला व्यापान [ यर्जनसाह ]

्रि श्रीवारीय (प्रस्तामा प्राप्त थावा यह (विष्ण काफ़िलाली कावारी हात वर्ष काहि । विक्ति (व्यक्त पिता वर्षा वर्षा प्रकाश किल्यू (एवं 2011) वृश्य हाता प्रथमार्थ , इति (वर्षि वर्षा । वर्षेत्र मूर्ल विलिक्षित् अछ इस्ता छाछि दूरनाएए । क्री दित्तव छानावरी एनका (मर्छा विन्युविकीला प्रयाला द्वारा कांगल भारतम, हराभवाकीतम्ब क्षुत्रमा बादाल भारतम । बातम, विति अए। क्रमाकील , असामश्रीयान । किन्नु उन्ह ग्राश्ता अस ग्रापूप छ। शासना। ठाई ला तमकालव कविलाय लालियात लाने श्रीहवात लाळाता करियात । लाई ब्राज िर्दान (जापाछून निर्मादिक व्यानुस्मत स्थान :-

"(द्वारा)ाय द्वार पाता २७७ हर छाता उठ वर स्तारि, ज्ञाय ज्ञानयी पिछालपूर्व किर्मा दूरनाम (बदाया कृति। (जागाव ठराक क्रीकेशाए जान (बता (होन) जनगर, भी लाख 🗅 छ दावाहाव जास याउ छूबि, छूबि ग्रज्ञायशियात, की विरु द्वातव भारतमा क' ठाव , त्रावना (२ Grania, विज्ञान । विज्ञान । "

"काठ ळाजाकी लाएकांन (य गाउ , (516 यह दिले जान) वाम विभोदिक क्राजन वाम । यम वर विभान ! वास ! वास कत्रवास !" [यभवसाम ]

ित्तपीरिं आसवजान १५ किनीव १५ किनीन १५ कारासी काताकृत कार्की नम्बन द्वालाम श्रां व्याताम विव "कविमान " कविलाम "-

" (छाग्रान छाङ्गीया । विद्या । भारता । किर्लाण कार कार्यका १ इत ना ५७०) होछी- गुऊ २ या ना छाजिनिन ? वडमान। वडमान!"

जारीया। ज्ञानूष्मव जानम् द्वावन्ता व्यक्तिमाव श्रीक । किन् द्वाविद्या क्रिक्ट्राव भाजनाव कार्ष्य छार्ट ध्यवास्त वा ध्वाद्विकाव ज्ञान्ताकाना त्रिए व्या याग्र । 'जागाव रेकियाराठ ' कविजाग दिवि पैलाड्वर:-" रुकार्ड किन्नु हाम्ला ध्यान , हाय हाहा काक एकहि जून ,

(बला राह्य याम, भाग्रांस के गर्का की एक्ट छाउँ जाल छाड़ास ,

क्षा इति व्यक्ति भागानाव भाग । क्षा है काला कारण होटे यात । क्रिया के जाया एवं अभाजन, याया आया क्रिकिन्तु सुन ? "

शुक्रीहर यातूपम् वाना कानी नमकात्म (का व्यवनित्रीय ग्रामकातमी लुन हाता करतारक दूर्जिक (बाहा निर्माणन कार्यान कुछि (क्रिया कार्य निर्माण दिशानकी क्रियान :-

्रार्थना कारा- यादा काए धाय (जिन्ना क्योह भूष्ट्रव प्राप्त , वित्र (यहा द्रम त्यामान राज दिनसमान (प्यहाता छ। एन यथ्याना । [धायान दिन्याना ]

्वर दृहर्ए वंद्य ज्ञानवज्ञाविद्यांत्र विभाशात्म जान् विष्णू श्रु भारतना । कासी हराज्याला केरालागाव कविषाय कातवात (द्राय - ३ ३क विळ्याल विभय -३२९ भविकाति तार्च । दर्भन वक्षकः त्वन रक्षिणाय विकाल दासान् । छात्र ०५ कविणाय ज्ञाननजान अन भूगरि दिलाम्।

र्दभग्रः ह्यात्नाहनाव ज्ञात्नारक व्याञ्चन वत्तरक भन्नि वा , नव्दक्रस्तव उरवाश्च वहनी थिन जागमा नर्यावयुक्त कवि जागल जागमा जथावा एय जान झाकी न्यापण् क्रानवाजान वान) विरक्षार , जूनमु ७ कन्मगानन वर्तमा , त्यामिक्त जाव्यक्ति रुवन एतर न्यूप्टानन जायान । चक्राला लिंधनौशूला हिल आयूएए जीव ज्याजाएव विश्ववी एथाजान । जिने जाव ज्ञानवछ।वादी बहनाव क्वी जमव श्रा जाएक्त।

# COLLAGE CHANDRA

B.A Brogroom in Bengali Intercnet Examination 6-thsom 2020-21

NAME :->

BASUDEB BAURI

REG\_NO :>

KNU2010 300 3839

ROLL 110:> 103200 5111063033

SUBJECT:> -1083000 Symmol Suprolanding

PAPER IVAME:> CHAMBERS SIENT 3 SARMONT

PAPER CODE: > BAPBINGSE-602

DATE

:→ 22.05.23

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# नम्पूरी सकुरू हैं जाताला राजिला नामन जाता है

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# **English**





# THE GREEN MILE A Study of American Prison Literature



# Submitted By Rituparna Choudhury

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Rituparna Choudhury

I

## Abstract

The Novel "The Green Mile" describes the encounter between John Coffey, an exceptional prisoner who exhibits mysterious healing and empathic talents, and death row superintendent Paul Edgecombe. Before being reissued as a single volume work, the serial book was first published in six volumes. A good example of magic realism is this novel. The Dynamism of courage, Comradeship, and humanity to face evil is reflected in this novel by Stephen King. Set in the 1930s at the Cold Mountain Penitentiary's death-row facility, The Green Mile is the riveting and tragic story of John Coffey, a giant, preternaturally gentle inmate condemned to death for the rape and murder of twin nineyear-old girls. The Birth of the Prison advances knowledge of the peculiar function of prison literature in addressing such acute themes as power dynamics and structures in contemporary prison systems. The paper starts off by going into great length regarding several theorists' theories of institutional power. The novel concludes with a discussion of how prison circumstances are depicted in the book. The goal of this study is to evaluate Stephen King's "The Green Mile" that concludes with a discussion of how racism and prison circumstances are depicted in the book. The analysis demonstrates the complex interplay between control and opposition as well as the strategies of power and resistance that are frequently used with prisons by prison writers when defending their ideas, values, principles, and freedom against a dominant oppressing power because the focus of this study is the relationship between the prison system and the institutionalized racism in the United States of America as reflected in "The Green Mile".

Keywords - Stephen King, The Green Mile, Birth of Prison, Power Dynamics.

#### CHAPTER - 1

## Introduction

The topic of my term paper is about the 1999 prison fantasy drama, an unparalleled piece of Stephen King's vivid imagination named "The Green Mile". The Green Mile is full to the brim with thought provoking moments, however the climax is richer in terms of emotions. King Stephen has written a depression- era prison novel that's as hauntingly touching as it is just plain haunted. One of his freshest and most frightening works to date. The Green Mile is the tragic story of John Coffey, a giant, preternaturally gentle inmate condemned to death for the rape and murder of twin nine year old girls. The story is narrated many years later by Paul Edgecomb, the ward superintendent compelled to help every prisoner spend his last days peacefully and every man walk the green mile to execution with his humanity intact. Edgecomb encountered a prisoner man John Coffey- a man who wants to die but he has the power to heal. In this place of ultimate retribution, Edgecombe discovers the terrible truth about Coffey's gift, a truth that challenges his most cherished beliefs and ours. The author, Stephen King cleverly made a connection of the social structure of America with the characterization of the book. He also constructed the plot to demonstrate flaws within the American Judicial system. Racism is a prevailing ideology - one that is so overwhelmingly present in the legal system that it played an important role in condemning John Coffey to death. The novel sheds light on the American Prison that existed in the county's institutions as well as within individuals. The Green Mile shows the opposing racism verbally is insufficient to change the status quo. The Story Green Mile different sociological theories and concepts can be useful in considering how societies rule the behaviors in life within different cultural places and times. Green Mile is a novel adapted from a story about the lives of a few guards on death row. The story leads up to the execution of a wrongly accused man that has a spiritual gift that permits him to perform extraordinary feats as he heals the wounded or sick. The Green Mile by Stephen King introduces with the first chapter was two dead girls, tells about the first time John Coffey. The Second part is about the mouse on the mile published on April 25th 1996. It tells about a unique mouse Mr. Jingles which is the only one animal character in the story. The third part of the novel is Coffey's Hands which was published on May 30th 1996. The fourth chapter is the Bad Death of Eduard Delacroix published

on June 27th 1996. It tells about the terrific execution of one of the prisoners in the Cold Mountain. The fifth part of the Green Mile is Night Journey published on July 25th 1996. And the last part is Coffey on the Mile, it was published August 29th 1996 and tells about the execution of John Coffey.

In The Green Mile, the sub-genre is the supernatural thriller because it concerns the supernatural and unusual power of the main character. In 1932, a 40-year old Paul was the supervising officer of Cold Mountain's death row, but known commonly as The Green Mile, for the color of its linoleum floor. This is the same year that John Coffey, a large black man found guilty of murdering the Detterick family's twin girls, arrives at Cold Mountain. He was found clutching the white girls' dead bodies and despairing over their deaths. Paul is unsettled by his gentle demeanor. One day, Coffey beckons him to his cell and cures Paul of his urinary tract infection. Paul struggles to reconcile Coffey's healing powers with the horrific nature of his crimes. Later, Coffey uses his healing powers again to revive Mr. Jingles, the pet mouse of another inmate, Eduard Delacroix, after the guard, Percy Wetmore stomps on it. The rest of the guards, Brutus "Brutal" Howell, Harry Terwilliger, and Dean Stanton witness the revival, and come to believe in Coffey's magical abilities. Coffey's gift extends Paul's life, but he has to watch people he loves die around him. Eventually, Elaine, the only one left who knows his story, passes away, leaving him all alone. The novel focuses on the approach of power in modern institutions. The birth of the prison contributes to better understanding of the unusual role of prison literature in tackling such sharp issues as power structures and dynamics in modern prison systems. The novel demonstrates the complex interplay between control and opposition and the strategies of power and resistance that are commonly exercised with prison by defending their ideas, values, and freedom against a dominant oppressing power. The major elements in this story I will cover up in brief, under this story like the atonement and absolution of sins, morality and duty in conflict, power dynamics and political connections. The overall story involves multiple executions, a performing mouse, mysterious power, a daring scheme, and difficult choices. The most attractive is the thematic coherence. It's somewhat of a smorgasbord, offering various satisfying motifs. King balances a single hopeful conclusion with the sadness of other less than happy endings.

#### **CHAPTER - 2**

## Study of the Text

#### The Story of two Dead Girls

Paul's story opens with a terrifying description of the electric chair. The narrator makes references to the terror and violence that define this type of execution, but he does not yet go into depth about the events. He gives a more emotional interpretation of the black bag than a strictly utilitarian one, evoking the existential and spiritual significance of his work, which is to force other people to confront the gravity of their own death. Paul emphasizes the electric chair's upsetting and potentially awful effects without directly asserting that it is wrong. Paul emphasizes that criminal behavior has nothing to do with a person's skin tone by pointing out that convicts come from all races. It's possible to interpret her release from death row as an acknowledgment of her particular vulnerability as a woman and domestic abuse victim. Paul keeps Percy from making Coffey's arrival into a joke or an unnecessary cruel occasion, demonstrating his dedication to treating convicts with respect. Coffey's general behavior and Paul's confidence in him, which is enough for him to accept the prisoner's explanation, highlight the fact that the new inmate does not at all come across as a typical criminal. Coffey, a huge Black man was found guilty of raping and killing the Detterick twins, two white girls. After being discovered sobbing and holding their lifeless bodies, he was swiftly found guilty and given the death penalty. Coffey's arrival at the prison gives Paul the impression that he is a mystic. Despite his bulk, Coffey behaves childishly and sobs nonstop in his jail cell. A gentlemanly Frenchman named him has a pet mouse named Mr. Jingles. Delacroix is frequently the target of Percy's unexplainable animosity. "You know murderers...at least you do if you've spent as much time minding murderers as I did. There was only one time I ever had a question about the nature of my job. That I reckon, is why I'm writing this." (Paul, Part 1, p. 6).

William Wharton is the most recent prisoner to enter E Block at this time. Wharton is inexperienced, irresponsible, and proud of it. Coffey still exhibits her innocent demeanor on the day of the crime. Coffey doesn't try to hide or flee when he is spotted by Klaus and the other men. Instead, as he holds the lifeless, nude bodies of the young girls, he is absolutely overcome with anguish. The contrast between his seeming sincerity and his conviction for this terrible crime is unsettling. Coffey responds to questions while sobbing, sitting on the ground without shoes, and in a straightforward and honest manner befitting of a little child.

#### The Mouse Mr. Jingles

While remembering every detail of the events of 1932, Paul acknowledges to the reader that the finds it difficult to arrange them in chronological order as the narrator cuts back and forth in time. The fact that King chose to present the story in a non chronological manner symbolizes the fact that the protagonist is an elderly man reliving events from the past. As Percy's superior, Dean tries to advise him that they should keep things quiet and orderly on E Block, but Percy rudely rejects him. In the future, Mr. Jingles only visits E Block when Percy is not there. The mouse is fed by the other guards, who then understand that it will only eat from the regulars. The mouse, for some reason, knows which guards are floaters, who only work irregular shifts, and which are regulars assigned to E Block. Paul comes to understand the significance of Mr. Jingles as he works on the story. In retrospect, it appears Mr. Jingles wassearching for Delacroix. Mr. Jingles is extremely intelligent and exudes an eeric, unearthly aura. Percy is enraged by his inability to kill or capture the mouse. Percy's obsession with Mr. Jingles, a harmless creature so much smaller than himself, is telling. Percy is enraged by his inability to kill or capture the mouse. In essence, Mr. Jingles triumphs over him.

One day, Mr. Jingles appears and Delacroix claims to have tamed him. Normally cowering and miserable, Delacroix is genuinely happy with Mr. Jingles and spends time teaching him tricks. The guards even help Delacroix get a cigar box so Mr. Jingles can sleep under his bed. Delacroix remains terrified of Percy. Delacroix teaches Mr. Jingles how to play fetch with a wooden spool and gives Mr. Jingles peppermint candies. Harry finds crayons and suggests that Delacroix color the spools so Mr. Jingles can be a circus mouse.

#### Coffey's Hands

The supernatural has already been alluded to, but in this, when Coffey heals Paul, King formally introduces the idea. Paul sees Coffey is unusually present for the first time since he arrived at Cold Mountain in his feverish haze. Even after Wharton nearly kills Dean, Paul is compelled to enter Coffey's cell despite knowing that doing so is against the rules. Paul seems to be so desperately needed by Coffey. Coffey is continually called stupid by society, who believes he is foolish. Coffey is the one who has an instinctive understanding of Paul's problems and a sense of urgency to take action. Paul's illness is absorbed by Coffey, who then exhales it through his body as a swarm of dark insects. "Lookit him, done piss his pants! Lookit what the big man done! but when someone touch him, he make water in 'is pants jus' like a baby!" (Delacroix, Part 3, p. 205). Paul decides Coffey is a conduit for God's work rather than blaming Coffey for healing him. He keeps expecting the agony to return, but it never does.

Paul struggles to understand why God would allow a child killer to carry out his healing. He concludes that Paul is something God is looking for. Paul turns to Hammersmith to learn more about Coffey because he is now more interested than ever. Paul conceals his genuine motivation for attending because he is aware of how unpopular it would be to say that he believes a Black guy convicted of the rape and murder of two White girls could be innocent. Percy is terrified by the danger and proximity. Delacroix finds it satisfying to exact retribution by making the bully appear afraid and helpless. Delacroix relishes the situation, making fun of Percy and relishing his humiliation. By doing this, Delacroix's fate is scaled and Percy's hatred for him grows even stronger.

#### The Horrible Death of Eduard Delacroix

Mr. Jingle's once lamb's tail starts to twitch at the same time. When Coffey drops the mouse, it returns to an ecstatic Delacroix. Delacroix is told by Brutal to throw the spool. Like before, Mr. Jingles chases after it, but this time one of his legs is slightly limp. Coffey smiles when Paul comments that Coffey assisted the mouse despite appearing exhausted but relieved. Delacroix is also giving Mr. Jingles a kiss while lulling him to sleep. Delacroix learns that

Mouseville is a lie from Percy as he straps him into the electric chair. Paul and the other guards begin to notice something is strange around the same time. Percy placed a dry sponge, rather than a wet one, on Delacroix's head while concealing his actions. Paul suddenly recognizes what Percy has done when he discovers that Delacroix's cheeks aren't wet. Percy looks at Paul and swiftly indicates for the electricity to start as Paul tries in panic to grab his arm to stop him. The heat of the electric surge burns Delacroix's scalp and sets him on fire without the saturated sponge to direct the power to his brain. The first people to notice what is going on are the guards. They can make out Delacroix's screams above the rumbling of thunder and can smell the burning flesh and hair. The witnesses scramble as Delacroix's body rapidly swings back and forth.

"Delacroix went on screaming out his grief and horror. It wasn't just the mouse, of course; Percy had smashed a hole in Delacroix's defenses and all his terror was pouring out. But Mr. Jingles was the focusing point for those pent-up feelings, and it was terrible to listen to him." (Paul, Part 4, p. 230).

The guards are all unsure on what to do. Due to the electricity, they are unable to wet Delacroix, and turning off the electric chair will only make his suffering worse. Paul and Brutal reluctantly decide against getting involved. Parts of Delacroix's body catch fire, as does the mask covering his face. The execution comes to a close. Paul proclaims Delacroix dead when the fire is put out by the guards using fire extinguishers. He continues to think that he is seeing a struggle between forces of good and evil as a result of this. The healing procedure for Melinda is more energetically intensive than the previous healings Paul has seen since she is on the verge of death. The house shakes, glass breaks, and Coffey can't seem to get the illness out of his body. Despite Delacroix's crimes, Paul recognizes his humanity and believes he did not deserve to die as he did. Paul is adamant about treating all of the inmates under his supervision with dignity,

#### Night Journey

Making their way outside the jail are Paul, Harry, Brutal, and Coffey. Coffey pauses when they pass Old Sparky, the electric chair, in the storage area. He claims that he can still hear the men screaming in the room and that there are still bits of the men within. Melinda has gray, hanging skin, most of her hair has fallen out, and one side of her mouth is turned down. The space has a sickly odor. The recent speed with which she has deteriorated horrifies Paul. Melinda asks Coffey to take down his pants when she sees him, acting like a child, so she can admire the size of a Black man's penis. Coffey disregards this and takes a seat on the bed next to her. Melinda's awareness begins to return with simply his presence; she gets more perceptive and starts to question him. Light bathes the two of them in their own private realm as the others observe. Whatever is making her unwell is visible to Coffey. He leans up close, places his lips on hers, and takes a deep breath, drawing the illness out. Coffey appears to have put his health at risk to assist a total stranger. Coffey and Melinda share a sensitivity and connection that goes beyond their differences in race and socio economic background to connect on a deeper level where Coffey is mending much more than just her physical ailment. She doesn't exactly recall what happened, but she has a general understanding of it. By giving him her necklace, she hopes to express her gratitude and offer him protection. Despite being worn out from writing, Paul is almost finished. He truly fears Dolan and thinks of Percy as Dolan's brother. Paul used to be able to readily confront Percy's bullying behavior when he was younger. Elaine threatens Dolan in a manner reminiscent of what Percy used to do, and Paul is appreciative. Observing how alive Coffey grows throughout their night time drive makes me feel even more intensely the injustice of his destiny. Coffey approaches their perilous and uncertain endeavor with a pure excitement, He chuckles as the gurney is pushed through the tunnel. Coffey will no doubt be gone by the time Paul rides the gurney again. Coffey seems right at home in the outdoors. His joy at being allowed to walk through the woods serves as a constant reminder that his freedom was wrongfully taken from him. However, Coffey is only happy to be free for the evening rather than feeling resentment or a need to escape.

# John Coffey in the Green Mile

The reality of Coffey's approaching execution sinks in after the commotion of the night journey and its aftermath had subsided.Paul is a proponent of accuracy, justice, and fairness.This forces him to once more conduct his own investigation into the twins' death. Coffey's suspicion that Wharton had raped and killed the Detterick girls was confirmed by him. Wharton was quite content to eat dinner with the Detterick family while remaining calm and polite, concealing his actual character, and then, without hesitation, executing horrifying crimes against the family.

"I'm rightly tired of the pain I hear and feel, boss. I'm tired of being on the road, lonely as a robin in the rain. Not never having no buddy to go on with or tell me where we come from or going to or why. I'm tired of people being ugly to each other. It feels like pieces of glass in my head. I'm tired of all the times I've wanted to help and couldn't. I'm tired of being in the dark. Mostly it's the pain. There's too much. If I could end it, I would. But I can't." (John Coffey, Part 6, p. 424).

The moral judgment of the guards on Coffey's death is starkly contrasted by the contrast between Wharton and Coffey, who risks his life and freedom in an effort to save the Detterick girls. The guards of E Block are aware of the truth of the twins' murder, but it doesn't seem like the rest of society is concerned. Even if a Black man is innocent, no one will be ready to risk their career for his survival. Paul, an elderly man, is shown reflecting on death in the book's final pages. Paul must wait, just like every prisoner did, knowing that their time was running out. The wait continues, in order to describe how Paul anticipates his demise, King uses the image of walking the Green Mile once more. Every person Paul has ever loved and cared for has passed away. Paul only recognized how much Coffey altered him when he lost Janice, the love of his life, in the bus tragedy. The illnesses and accidents that take everyone else's lives leave Paul unharmed. Coffey paradoxically spares Paul's life, but Paul considers how close salvation and damnation are to one another.Loneliness can be worse than death, as Coffey knew.

Keywords: Humanity, Death, John Coffey, Paul, Prison, Punishment, American, Prison, Power, The Green Mile

#### CHAPTER - 3

## Theoretical Framework

Power Dynamics, Structures and Resistance in Stephen King's The Green Mile

According to Foucault's Discipline and Punish, there is a strong need to comprehend the historical significance of the American prison system and how it relates to the oppressed minorities who have struggled there. Foucault illustrates the extent to which perpetual surveillance has a significant impact on individuals within disciplinary institutions as well as on society at large through an adaptation of Jeremy Bentham's "panopticon" theories. A proponent of jail reform and a legal philosopher, Bentham lived from 1748 to 1832. Bentham's Panopticon is a jail concept, consisting of a ring-shaped structure divided into cells and placed around a central tower with large windows that open onto the inside of the ring. Inmates are therefore invisible to one another, but the guard station in the middle of the building can see and keep an eye on them at all times. "A society in which individuals are increasingly caught up in power structures and in which visibility is a key tool of social control," according to Anthony Elliott. According to the notion, prisons foster and maintain hierarchical structures of power.

This prepared people to think critically and come up with radical solutions to many issues facing the prison system, including mass incarceration, imbalanced power structures that allow the institution to continue operating. The emphasis will always be on "the social and cultural functions of the prisons, how they shape the quality of individual lives and are shaped by the dynamics of social structures," in other words. In actuality, Foucault is drawn to the study of administrative methods for population control. He claims that what he called "bio-power" causes physical bodies to respond in particular ways as a microcosm of societal control over the larger population. (Foucalt, 8) Discursive practice, or "bio-power," establishes what constitutes what is normal, acceptable, deviant, etc. This discursive technique is constantly evolving. He holds the view that social order does not necessarily alter as a result of revolutions or other state-centric power battles. Some people believe that there is limited room for effective action since Foucault's definition of power is so clusive and disconnected from agency or structure. King

completely reforms the prison genre to reflect the many jails in America. Because they cover a wide range of political and social issues, shed light on the cultural divide within the contemporary penal system, and denounce a number of American political institutions whose functions deprive people of agency, his prison narratives are regarded as a comprehensive portrait of America at the turn of the twentieth century and into the twenty-first (Magistrate, America's Storyteller VIII). The research will concentrate on The Green Mile, one of his many stories. The Green Mile is a book that weaves together the contentious topics of violence, the death penalty, justice, and the dependability of the legal institutions that carry out executions.

"The wide corridor up the center of E Block was floored with linoleum the color of tired old times, and so what was called the Last Mile at other prisons was called the Green Mile at Cold Mountain." King describes how prison guards take pleasure in torturing death row convicts in ways that violate the laws of justice and rehabilitation.

Foucault acknowledges that the present prison system imposes harsh punishment. Throughout King's prison narratives, some inmates voluntarily submit to the authority of others. However, other inmates reject the status quo and opt to rebel against the repressive system in order to survive. Paul and Brad Dolan's relationship exhibits power dynamics as well. Paul is once again the helpless one. This time, it's due to his advanced age. One of the few individuals that is aware of Paul's age is Dolan. Although it is not precisely a secret, Paul will not discuss it until specifically asked. When Dolan performs something that might land him in problems with his superiors, such as physically harming facility inhabitants, his age is also a concern. Dolan threatens Paul after putting a ring of bruises on his wrist. "I'll tell them you're having delusions," he says. The Green Mile is a story that creates an important emotional response through its strong development of characters led by the misknew internee Coffey. The Green Mile asks the followership to look beyond markers and see the characters as mortals which are corroborated by the performances of John Coffey. Despite its long- handling time of three hours, the director states that the long duration is a crucial fashion in icing the followership is completely invested emotionally. It can be seen as a fashion that's used to allow the followership to gain a full understanding of the characters, giving the director time for characterisation to produce more complex followership alignments.

## The American Prison Technique

King's creative writing style in prison captures his solitary imprisonment. Writing is a common method of catharsis used by many inmates to express their political, social, and ethical problems that are crucial for their time, place, and generations. The extent to which readers perceive the narrative voice is a concern in prison narrative in general because readers are completely unfamiliar with the structure, stories, and experiences of prisons; as a result, they are unable to assess the veracity of the depictions of prison life if they do not have trust in the prison narrator. Additionally, the atmosphere in which the narrator crafts his jail tales is very dissimilar from the outside world. Since Archer's prison narrative covers a wide range of subjects, it is unique from other conventional ones. He uses the jail narrative approach, which expresses genuine experiences via the use of vivid images and metaphors. In addition, he presents his personal interpretation of reality to the reader while examining the topics of self, authority, power, and resistance.

King vividly describes interrogations and prosecutions while using the first-person narrative approach to lure readers into the narrator's world. Additionally, a prison writer (Paul) commonly chooses dialogic styles to express the painful experiences in prison. To document the agony in the prison and "preserve memorial images of themselves and others as historic testimony," he creates personal stories in the form of novels and diaries. In contrast to other literary genres, King's prison narrative concentrates more on the "place" than any other. In The Birth of the Prison, the concept of "space" is discussed, and it is argued that control of space is closely tied to control of inmates. One may argue that the prison is the spatial limitation the inmates are trying to break free from, thus they are attempting to interact with it in order to possess it. The area needs to be carefully addressed because the prison plays a significant role in the prison story. His isolation and confinement was expressed by the innovative nature of King's prison writings. A large number of prisoners are seeking an appropriate catharsis by writing, so that they can express their policy, societal and moral concerns which have a critical importance to them over time, place or generation.

## Capital Punishment

A component of American culture is the current contemporary prison literature. Since the first decade of the 1960s, notable American jail literature has been released. Given how accurately it captures the experience of Afro-American prisoners within the prison, it is regarded as a turning moment in contemporary prison literature. Therefore, America itself as a jail of the black country and Afro-American enslavement in the United States are the central themes in contemporary American prison literature, as well as a Foucauldian approach in Stephen King's The Green Mile.( Hussain, 2901). People of color are the most criminalized citizens in the United States, according to Lorna Rhodes, as the country moves away from using slavery in prison as the primary form of punishment. The human subject is simultaneously positioned in very complicated power interactions as well as relations of production and signification. In other words, in order to gain the most accurate picture, the power of the institution itself is insufficient, and the topic of punishment and the prisoners themselves cannot be ignored. The prison and its role should be tied to the cultural power dynamics. Any prison's history must be compared to the history of the state in which it is located. Punishment is deeply entwined with history, not just with power. Therefore, it is impossible to analyze the cultural role of any prison without first understanding its origins. We must view the jail as an intellectual creation rather than just a physical edifice if we are to understand it as a concrete and effective response to crime. The practice of capital punishment and how it is administered, people are drawn to events that focus on either because they have always been fascinated by the opposing themes of life and death. People are more likely to believe a youthful, apparently able orderly than a veritably senior nursing home occupant. Paul has no power over Dolan until Elaine Connelly threatens to have him fired. This time political connections work in Paul's favor. Paul says "I believe there's good in the world, all of it flowing in one way or another from a loving God. But I believe there's another force as well, one every bit as real as the God I've supplicated to my whole life, and that it works purposely to bring all our decent impulses to ruin."

## CHAPTER - 4

# The Allegory in the Green Mile

In his analysis of Frank Darabont's film adaptation of 'The Green Mile', Erwin Cabucos discusses the symbols that form part of the allegorical meaning of Stephen King's original masterpiece. 'The Green Mile' (1999), directed by Frank Darabont and based on the novel of the same title by Stephen King, is an allegory of Christian healing and freedom. It represents Jesus Christ for today's society in a world poisoned and imprisoned by perception, injustices, and a more deep-set malady-the darkness of the heart. The setting, characterization, and plot eleverly portray a series of metaphors and analogies that help reveal the message of the film: physical healing and true liberation can be achieved in real kindness and pureness of the heart, but hatred, bigotry, and hostility are true illnesses and imprisonment of our time. To begin with, the character of John Coffey represents Jesus Christ in a multitude of ways. First, the initials J and C bear semblance to that of Jesus Christ. It's repeatedly mentioned in the dialogue, where John introduces himself as 'Like the drink, only not spelt the same'.

The emphasis on the name and its relation to the drink are reminiscent of the Eucharist, the Christian belief of the real presence of Christ in the form of bread and wine. Third, and perhaps the strongest allusion of the character to that of the person in the Christian scripture, is the personality as the healer. John Coffey heals. He alleviates his boss' urinary tract infection, brings a creature, a mouse, back to life, and restores the health of his warden's wife's health. The character of John Coffey in 'The Green Mile' strongly links to the biblical Jesus. Furthermore. the connection of the character of Coffey to the Christian Lord is highlighted by the filmic portrayal of the title as the light of the world, from the gospel of John Coffey is consistently associated with light. He is scared of the dark. At the onset he requests that light could be left in his cell and during his execution, he asks that his face could be left uncovered. The character's association with the image of the light transcends and more importantly, concretizes his god-like nature, the opposite of evil. When he heals, light glows brightly: Paul Edgecomb's face, the mouse and Mrs. Moore's mouth and face go bright from the rush of God's grace that comes to

them. He can also foretell that he would be taken for a ride towards Mrs. Moore and in the end he can feel the darkness of the people in the room, saying: "There are lots of folks here that hate me. Lots. I can feel it." He wants his face to be uncovered at the moment of his death. He died as per scheduled but his campaign for the real heaven is understood.

First it is known through the lyrics of the chick-flick movie where two dancers move to the time of "I'm in Heaven", then explained by Coffey as he walks on the Green Mile where he relays his dream being in heaven with Dale and the two girls, and concludes in the lips of Coffey himself whilst at the electric chair; "I'm in heaven, Heaven, I'm in heaven," Not only that it is understood by the people around him, it is also felt by them. The repetition of the word 'heaven' simply cements the invitation of the film to value the eschatological teachings of the prophet; 'heaven' being the preferred state of humanity where kindness and compassion exist and where bigotry and racism do not. The use of the character of Coffey from the African-American race alludes to the haunting experiences of slavery and the on-going racism in American society and the world at large against people of colour. Coffey is the instant perpetrator of the rape and murder of the two girls, condemned before a council of the neighbourhood of white men with guns and dogs, slapped and judged without dialogue or simple consultation. Coffey is the representation of the common victimization of the helpless black suspects as a direct reaction of perception and stereotypes that breed like a disease in the mainstream white race. The seating arrangement of the public that witnessed the execution shows similarity to that of the chapel where white people are faced with the reflection of their bitterness, resentment and vengeance. This auspice is the setting for all the miracles that take place, real judgment that had to be carried out, compassion that overwhelms people, love that had to be felt, realization through illumination and life everlasting that had to begin. Institutions can be lunatic, bureaucratic and corrupt, and they can serve as extensions of mostly white officers and policy makers, depicted by the majority of the guards and the public who witness and subscribe to the outcome of their own judgment. 'The Green Mile' by Stephen King is an allegory of Christian healing and freedom. It is a triumph of representing Jesus as the healer and liberator for the real malady of and imprisonment of our time. They can be cured. But the real malady of our time is hatred and intolerance of all people, and they lead to death. There is therefore a call to Christian love, kindness and compassion, and to look forward to heaven.

## CHAPTER - 5

# The Green Mile and the Contemporary Society

# The Great Depression and American Prison

The novel is set during the Great Depression, which was a particularly traumatic time in American history. The Great Depression abruptly and dramatically altered society. Due to this, society began to retreat in the direction of an economic and social downturn. Through my study I discovered that the significant upheaval felt during the Great Depression was caused by a number of variables. There was a race for opportunities due to a shortage of opportunities and workers. Both of these ideas are highlighted in the novel and film The Green Mile. Through my writing. I try to explore how the prison and incarceration issues raised in The Green Mile during the Great Depression could be connected to similar issues in contemporary society. For everyone, the Great Depression was an arduous period. The author of The Effect of the Depression on Prison Commitments and Sentences, Leon Thomas Stern, discusses how the time period's prison institutions were impacted by the Great Depression, as well as the general attitude toward incarceration, and how these elements may have served as a model for contemporary institutions. "Penal punishment tends to be humane when the labor supply is limited and labor is consequently in high demand, but it turns cruel when the labor market is oversupplied and persistent unemployment sets in. There is less need for force when things are going well and there is less temptation to commit crimes, but when unemployed people are tempted to trade their freedom for humane treatment in prisons and other institutions, it is necessary to make those places prohibitive and to impose harsher penalties overall to balance the temptations of the underprivileged masses. The author develops a theory on the connection between incarceration and the state of the economy before pointing out that the theory has never been thoroughly examined. The theory contends that a population's overall health has an impact on its general demeanor and attitude. Depending on what the residents feel they must do to survive, their actions may or may not transfer into criminal conduct.

In today's culture, the rise of mass incarceration has created its own problems. More inmates than ever before are housed in prison facilities. The author analyzes the causes and implications of our nation's high incarceration rates in the passage The Prison in Society: Values and Principles from Jeremy Travis' book The Growth of Incarceration in the United States. "The shift in American penal policy amid the growth in incarceration mirrored not just societal changes but also a shift in mentality. Recently, the primary purpose of incarecration has shifted from being rehabilitation to being vengeance, according to policymakers and enforcers. The idea that the punishment should be appropriate for the crime is fundamental to justice and punishment. The benefits of proportionality principles in terms of justice, reason, and cost-effectiveness finally turned out to be temporary.

"The gains in justice, rationality, and cost-effectiveness that proportionality ideas fostered ultimately proved short-lived. The core ideas about justice and equal treatment that motivated support for proportionality were croded by the adoption of mandatory sentences, three-strikes laws, and other measures that readily imposed incarceration. Such laws often disconnected the severity of punishments from the seriousness of crimes. Low-level drug crimes often were punished as serious acts of violence. Under three strike laws, some misdemeanors and minor property felonies were punished as severely as homicides, rapes, and robberies." (Travis).

If and when confronted in a dangerous circumstance, humans will act according to their survival instinct. We are a species that is motivated to survive, and many of us will do whatever it takes to make sure we succeed. Crisis situations, like the Great Depression, undoubtedly inspired many people to do heinous acts out of extreme desperation. Probably due to hardship, people became desperate. In order to survive, many people probably turned to actions they would never consider before. The concept of justice and the benchmark for human welfare alter as society develops. Mass incarceration has increased recently as a result of legislative changes, which calls into question how we now conceive justice and internal government. Similar concerns of racism and imprisonment in contemporary culture were reflected in a portrayal of a prison drama set during the Great Depression. While providing us with useful lessons, history also serves as a warning to not commit the same mistakes again. We must draw lessons from challenges like the Great Depression and use those occurrences as a roadmap for building an even better society,

# Conclusion

The Chilaracter of John Coffey played by Michael Clarke Duncan ends "The Green Mile" with a smile as he knows that his particular skills will continue after him and wishes that the person he has entrusted them to would utilize them wisely. He can be seen in the movie dishing out justice to those he thought deserved it and giving life to those who were, at one point in the picture staring death in the face. To answer the question, "Why did they kill John in The Green Mile?" It is because he was found guilty of sexually abusing two young girls, a crime that, as creators soon enough reveal. The discovery of Duncan John Coffey with the bodies of the two girls by his side and their blood on his clothes provides additional evidence in support of his execution. In a way, the conclusion is meant to emphasize the prejudice and intolerance that existed at the time against persons of African American origin. The Green Mile is a fantastic "good vs. evil" tale that depicts the harsh injustice of American prisons. Some of the characters in this book are found to have been wrongfully convicted of crimes. Additionally, it encounters severe human abuse. King presents a nuanced picture of the treatment that Americans give to convicts who belong to groups that are regarded as criminalized. Without considering the country's use of torture on its detainees, it is impossible to comprehend the subject of criminalized populations in the United States. The primary conflict involves the ability to grant and revoke life. The state is using its power to end the lives of the residents of the Green Mile who have already exercised their right to life termination. Even though John Coffey has the ability to give life, he will be put to death. At the book's conclusion, Paul, the protagonist, as well as his wife, coworkers, and, to a lesser to some extent, readers are tormented by the thought that the state will put an innocent man to death, not only an innocent man, but one who has been endowed with a divine gift. The book is a charming tale about Paul and his companions coming across John Coffey, a character with supernatural abilities, and experiencing something Wonderful.Stephen King used juxtaposition in the book's character development, storyline, and setting to reflect the intense racial, judicial, and power conflicts. When comparing these ideas to modern culture, the author employed the dominant language to portray Southern American attitudes and cultural beliefs from the 1930s.

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## The exploration of horror and sadomasochism in Bram Stroker's Dracula,

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#### Abstract

The word 'horror' closely resonates with the word 'fear'; horror can be understood as the immediate response to the presence of fear in human mind. Fear as we know is primal drive that controls our 'flight or fight' reaction, in order to ensure our survival in a hostile environment. In literature, the horror genre has emerged as a distinct form of fiction that stimulates our sense of fearfulness and dread. From thousands of years, the concept of horror has been passed on as warnings and moral teaching through religious folklore; however in English Literature the horror genre flourished in the pre-romantic gothic era of 18th century, which was mainly based on the idea of supernatural. In his world-famous literary work "Dracula", Bram Stroker illustrates the fear of unknown by creating the character of count Dracula. Stroker uses the altitudinal and isolated setting of the Carpathian mountains to create a sense of detachment between the supernatural and human perception. In this novel the real horror mainly forms out of the helplessness of the human characters, who get stuck within a game of power-play that scrapes the limitations of curiosity and temptation. Dracula embodies the animalistic hunger of human vices. This thesis will contain the analysis of the growth and development of horror with time, along with the psychological dynamics of the predator and the prey.

Keywords: Horror, supernatural, human psychology

#### Introduction

Bram Stoker's Dracula is considered to be one of the greatest contribution in the field of gothic horror and psychosexual analytics. Drawing from Transylvanian folklore and history, Stoker creates an imaginary creature that revolutionises the understanding of horror. Other than the obvious use of supernatural, Stoker twisted the Victorian notion of modesty and humility. He portrays the Victorian era undergoing a transition saturated with old doctrines and a new lifestyle filled with technology. With the new dawn of Science and technology comes the fear, uncertainty and excitement of the unknown. In his novel Dracula, Stoker showcases this fear and anxiety of the Victorian culture; when faced by an entity that threatens to destroy the very core of its foundation. Among many such foreign and frownedupon topics is the idea of sexuality, more so the idea of female sexuality along with homosexuality. Stoker approaches these concepts in a metaphorical way, using varied items like blood, bite marks etc. The novel's main antagonist Count Dracula who personifies the raw and primitive sexual force, only seeks to corrupt the "weaker sex", that is, women. Even though Stoker wrote the whole novel as a display of battle between Victorian morals and human vices( mainly referring to the sin of ever insatiable lust); but under the scope of modern science and psychoanalysis, we can get a better understanding of the natural human psychosis that is personified by the character of count Dracula. We can also understand how this text has succeeded to become a cult classic and inspired the popular culture, mainly in the sphere of kinks and fetish.

### Chapter 1 Horror: Victorian to Modern

It is well known idea that human cognitive and physical development has been subjected to millions of years of evolution and adaptations. And because of this human beings are generally equipped with reflexes and characters that are born out of survival instincts. These reflexes can be physical and psychological. And in this case, 'Negative emotions have their wellspring in an ancient mammalian fear system, and once activated they are difficult to consciously extinguish' (Öhman and Mineka 2001). This helps us to understand that the trait of fear can have a range of psychological and physiological effects on human body like having goosebumps, increase in heart rate, sweating etc.

Horror literature utilizes these negative emotions to channel the sense of horror in the readers' mind which in return induces the reader with Imagination and provides the reader with a thrilling experience of fear and danger within a controlled condition. In English literature, the study of horror was excluded from the general literary principles and academic adaptations up until the later half of the eighteenth century, when the publication of <u>Castle of Otranto</u> by Horace Walpole founded horror as a legitimate literary form. Later in the nineteenth century, many influential works like that of Mary Shelley's <u>Frankenstein</u>; Washington Irving's <u>The Legend of Sleepy Hollows</u>; Edgar Allan Poe's <u>The Tell-Tale Heart</u>; Oscar Wilde's <u>The Picture of Dorian Grey</u> created the concept of 'Gothic literature', which mainly features macabre and supernatural themes.

The popularity of the Gothic element is made up of the mixture of two approaches, as Sage phrases it brilliantly, the 'equivocal explanation of irrational phenomena'. This 'irrational phenomena' is the presence of situations, characters or ideas that really do not exist; or an imaginary concept such as ghosts, teleportation, mythical creatures, body transformation etc. These imaginary factors are needed to create an uncanny and eerie atmosphere that builds the gothic plot.

This 'trrational phenomena' has to be accompanied by an 'equivocal explanation' that offers us the closure of this kind of narrative account, but fails to provide any direct cause or solution to the obscure scenarios presented to the readers. This intermixing gives rise to the sense of horror and ghastliness that can give us a dangerous and thrilling sensation. But even after containing all these qualities, Stoker's <u>Dracula</u> was taken to be incoherent and disjointed. The highbrow literary magazine The Athenaeum reviewed Dracula, concluding that the novel, "is highly sensational, but it is wanting in the constructive art as well as in the higher literary sense. It reads at times like a mere series of grotesquely incredible events.... Still, Mr Stoker has got together a number of 'horrid details', and his object, assuming it to be ghastliness, is fairly well fulfilled. Isolated scenes and touches are probably quite uncanny enough to please those for whom they are designed"

There is a definite implication here that readers of the novel are much likely to be seduced or rather bewitched by the 'grotesquely incredible events', which is a clear reference to the novel's underlying sexual context. This way it is possible to say that the character of Count Dracula has the ability to turn the readers into a 'duped consumer'; that is, just like the women in the text who are enslaved to consuming blood and breaks free from the civilized society, Dracula turns the readers into thoughtless consumers who find pleasure in reading such sensual content. So by doing this Stoker's Dracula proves that human nature is not devoid of temptation and has a natural inclination to seek out their primitive drive.

And this reflection on the subject of 'primitive influence' sums up the horror of Victorian society quite completely. Stoker's Dracula not only illustrates the stigma of the Victorian morality in terms of biology and gender norms, but also illustrates the fear of the 'new discoveries', 'reverse colonisation' and 'otherness'. During the time of late eighteenth and the whole nineteenth century, England was at the peak of its industrial development. As Nelson says, "England underwent technological, commercial, and social developments that fundamentally changed the English life,

replacing the world into which Victoria was born with one that looks much more familiar to the twenty-first-century eye".

England was going through a period of transition. The old doctrines and institutions were attacked and modified and a new order was proposed. New scientific knowledges and discoveries were prompting people to view the world in a more progressive light. Being the most largest imperial force of that time, England had turned into a centre of diverse cultural, traditional and racial influx. This had a dual effect on the Brit masses, on one hand they feel intrigued and excited to know new mysteries; but on the other hand they also fear for the breach in Britain's Superiority. Stoker Brilliantly represents the zeal of objective and scientific approach through the character of Doctor John Seward, in the novel he runs a mental asylum and deals with a special patient called Renfield. In the novel Dr. Seward says, "Why not advance science in its most difficult and vital aspect, the knowledge of the brain? Had I even the secret of one such mind, did I hold the key to the fancy of even one lunatic, I might advance my own branch of science."

We must understand that this 'knowledge of the brain' signifies the hidden cognitive activities of the brain which at that time was only regarded as a theory. To a great extent the mysteries of human mind lead to the germination of the fear of unknown. In his long essay, Supernatural Horror in Literature (written 1925-1927 and revised 1933-1934), Lovecraft famously claimed that the, "oldest and strongest emotion of mankind is fear, and the oldest and strongest kind of fear is fear of the unknown ... As may naturally be expected of a form so closely connected with primal emotion, the horror-tale is as old as human thought and speech themselves" (2000, p. 23)

Opposed to this, Abraham Van Helsing turns out to be quite different. Even after being a man of science and technology, he knows a lot about vampires and supernatural beings. His knowledge of both medicine and folklore enable him to solve Lucy's condition. It can be said that Van Helsing's character represents a sort of middle ground between Dracula and the English. He is a man of science, and thus a man of the West, and yet, like Dracula, he is, not a native speaker of

English, since he is Dutch. Moreover, he proves that there is some truth in the superstitious beliefs, as his non-scientific methods turn out to be effective against the vampire. Thus, Stoker successfully connects the new and the old, science and superstition, resolving the tension that existed between the two. Senf explains that the enthusiasm for science and technology is a typical feature of England in that period. Due to extensive colonisation, Britain in Victorian age came in touch with variety of cultures, languages and traditions. This brought forth another fear within the mind of British people, that is of 'reverse colonisation', Britain feared that the diversity of nations would weaken their imperialistic power. In the novel the arrival of Count Dracula into the England represents the beginning of 'reverse colonisation', 'Stoker tackles the issue of colonization and the metaphoric revolt of the 'inferior' East visible through Count Dracula's desire to become a part of the English society' (Lukić and Matek, "Bella and the Beast" 85)

Dracula calls himself, 'a proud Szekely' in whose 'veins flows the blood of many brave races'. Jonathan says, "Then I stopped and looked at the Count. There was a mocking smile on the bloated face which seemed to drive me mad. This was the being I was helping to transfer to London, where, perhaps, for centuries to come he might, amongst its teeming millions, satiate his lust for blood, and create a new and ever-widening circle of semi-demons to batten on the helpless."

### Chapter-2 New Woman: Female Identity Beyond Convention

The conventionally ideal picture of woman in English fiction started undergoing change towards the end of eighteenth century and beginning of nineteenth century. During the midnineteenth century, the "Woman Movement" developed as a result of "women's strivings to improve their status in and usefulness to society." The objectives of the movement were "to initiate measures of charitable benevolence, temperance, and social welfare and to initiate struggles for civic rights, social freedoms, higher education, remunerative occupations, and the ballot". Evolving throughout the nineteenth century, the Woman Movement developed in response to women's dependent situation. It promoted a series of new images for women: True Womanhood, Real Womanhood, Public Womanhood, and New Womanhood. As Barbara Welter describes in her, "Dimity Convictions: The American Woman in the Nineteenth Century (1976)", a 'True Woman' was designated as the symbolic keeper of morality and decency within the home, being regarded as innately superior to men when it came to virtue. 'Piety, purity, submissiveness, and domesticity' were thought to be natural to women.

The phrase "New Woman" was invented by the author Sarah Grand in her article "The New Aspect of the Woman Question" published in the North American Review in March 1894. It was Henry James who developed the phrase New woman when he used it to describe American emigrants living in Europe. In Victorian society of England, the popular opinion was against woman's individual self and she was ordered to take up the conservative middle class career of marriage and motherhood, her role was fixed by the Victorians as she was not allowed to transgress against sex, gender and class distinctions, "Women can rarely have been held in lower esteem than they were at the end of the 18th century". So, the emergence of the New Woman was inevitable. In the later parts of Victorian period, one could see the beginning of change in attitude of society on the question of gender relations; the concept of patriarchal male domination was punctured and the

modern concept of gender equality gained momentum. Serious discussions started on issues of marriage and divorce laws, right to property, custody rights, educational and employment opportunities for women, female suffrage.

First we must understand some of the essential characteristics that were required for a woman to be ideal or a 'True Woman' in a Victorian society. The ideal of True Womanhood was early imprinted upon young girls, who were expected to be obedient and exhibit great self-control. They were also taught to value their virginity, "as the 'pearl of great price' which was her greatest asset". Women were suppose to value marriage by keeping themselves chaste for her future husband and learning the skills necessary to manage a household and rear children. Motherhood was valued as the most fulfilling and essential of all women's duties, a view extending the eighteenth-century ideal of Republican Motherhood, which charged women with the task of, "shaping the values of their sons, who were likely to have a direct impact on the nation's success".

Ironically, while a True Woman was assumed to be a pillar of moral strength and virtue, she was also portrayed as delicate and weak, prone to fainting and illness. She dared not exert herself too much physically or be emotionally startled for fear of her health. Strenuous physical activity was discouraged, as women were considered to have, "much more delicate nervous system[s] than ... men because of the particular function of their reproductive organs [T]heir fragile nervous systems were likely to be overstimulated or irritated, with disastrous results". Also due to their emotional and physical frailty, a True Woman needed to be protected by a male family member. She also required the luxuries that his income could provide. In the novel, Van Helsing insisted that Mina should not participate in the action of hunting and killing the vampires, "We men are determined, nay, are we not pledged, to destroy this monster? But it is no part for a woman. Even if she be not harmed, her heart may fail her in so much and so many horrors and hereafter she may suffer, both in waking, from her nerves, and in sleep, from her dreams."

In Bram Stoker's Dracula, The concept of 'True woman' and the emergence of the 'New woman' has been illustrated in a rather complex light. Various aspects like Women's independence, hyper-femininity, hyper -sexuality and intelligence which goes against the traditional norms of the Victorian society. has been explored by Stoker. These themes are explored through the female characters present in the novel, mainly Mina Murry and Lucy Westenra. Both characters exemplify the ideals of Victorian womanhood, although in different ways: while Lucy is representative of the emotional and domesticated view of women which was desired by men of the time, Mina is sensible and devoted to both God and her husband, qualities which were held in high regard in the Victorian era. However, both women also represent the emerging phenomenon known as the "New Woman" – although again, in differing ways.

Despite being very close friends, Mina and Lucy are very contrary. At the starting of the novel, Mina confesses that she has been overwhelmed by her work as an assistant schoolmistress and states that she is learning shorthand and practising on a typewriter so that she could communicate with Jonathan when they are married. In stark contrast to Mina's studiousness is what Lucy describes doing with her time – going to picture galleries and for walks in the park. Lucy also conveys much more emotion in her letters than Mina: she writes that she wishes Mina were there so she could tell her friend what she feels and frequently confesses that she is afraid, sorry, or happy, while such emotion is not as apparent in Mina's writing. Another significant difference between the two women is that Lucy is an openly sexual character and Mina is not. After being proposed to by Dr. Seward, Quincey Morris, and Arthur Holmwood all in one day, it becomes clear that Lucy is quite flirtatious, she writes to Mina, "Why can't they let a girl marry three men, or as many as want her, and save all this trouble? But this is heresy". While she acknowledges this as "heresy", Prescott and Giorgio refer to her behaviour in the letters as 'sexually excessive'. Thus, Lucy's declaration of wishing to marry three men is, initially, the most definitive sign marking her as the whore to Mina's virgin. This is also the beginning of Lucy's transformation into the monstrous female, as her

transgressive sexuality is what is presented as her, arguably, most damning trait. Lucy's sexualization, taken to be a characteristic of the New Woman, becomes much more apparent after the young woman succumbs to vampirism.

Lucy as this seductress is in direct opposition to the view of a woman's sexuality held in the Victorian era, a time marked by sexual repression. The fact that Lucy's victims are children is significant and suggests that Lucy's animosity is directed not just at marriage but at motherhood as well, a role that Victorian women were expected to fulfill. This "exaggerated perversion" of motherhood reflects the fear that the New Woman would not only be a bad mother, but potentially harmful and deadly as well. By isolating and exaggerating Lucy's flirtatious tendencies, Stoker calls attention to the possible destruction that is caused by the sexualized New Woman. Lucy, when turned into her monstrous form, is also described as having eyes 'unclean and full of hell-fire', as well as being 'callous as a devil'. Her being 'callous as a devil' is declared by one of the male characters when Lucy is seen flinging a child to the ground, further demonizing her lack of nurturing capabilities. Lucy being referred to as a 'devil' further sets her apart from Mina, as Mina is referred to as 'one of God's women fashioned by His own divine hand'

Mina, on the other hand, is portrayed as a somewhat amalgamation of the 'New Woman' and the 'True Woman'. Though she was described as the stereotypical Victorian woman and was submissive to his fiancée, she showed another side of her that could be identified as the New Woman aspect in her personality, as she was quite independent and intelligent. Mina's intelligence is shown in her ability and interest in modern technologies. She is very experienced in shorthand. She is very fond of her typewriter, as she had written everything with it and not to mention her knowledge of using the phonograph. She is a determined person and quite independent. However, seeing that Mina still holds her traditional Victorian values, she acknowledged that her ambition to work harder is because she wanted to keep up with Jonathan and help him after getting married, "I have been working very hard lately, because I want to keep up with Jonathan's studies, and I have

been practicing shorthand very assiduously. When we are married I shall be able to be useful to Jonathan, and if I can stenograph well enough I can take down what he wants to say in this way and write it out for him on the typewriter, at which also I am practicing very hard."

The ultimate New Woman moment for Mina is when the protagonist group was trying to hunt and kill Dracula. She contributed by taking the role of the lady journalist that she has yearned to be. She assembled and distributed the journals, letters, and all the writings they had to the group to look for clues and leads. Both her womanly attributes and intellect did not get overlooked as she caught Van Helsing's attention and he constantly 'praise of her man's brain and woman's heart'. First, Van Helsing praises her for being the perfect example of a Victorian woman, "She is one of God's women, fashioned by His own hand to show us men and other women that there is a heaven where we can enter, and that its light can be here on earth. So true, so sweet, so noble, so little an egoist, and that, let me tell you, is much in this age, so sceptical and selfish." Then later Van Helsing applauds her for her ambition and dedication, "Ah, that wonderful Madam Mina! She has man's brain, a brain that a man should have were he much gifted, and a woman's heart. The good God fashioned her for a purpose, believe me, when He made that so good combination".

As previously established, the ideal Victorian woman is one who embraces her motherhood role. Mina is portrayed as very nurturing, tending and taking care of Lucy when she was ill and suffering from severe anaemia and chronic blood loss, as well as sleepwalking as she fell victim to Dracula and slowly turning into the undead herself. Also she becomes Jonathan's rock while he recovered after his horrible encounter with the Count. She also lets Arthur Holmwood rest on her shoulder while he wept in grievance even though they never met before, and she offered him comfort and to be his "sister" in honour of her sisterhood with Lucy. Mina Says, "We women have something of the mother in us that makes us rise above smaller matters when the mother spirit is invoked. I felt this big sorrowing man's head resting on me, as though it were that of a baby that

some day may lie on my bosom, and I stroked his hair as though he were my own child. I never thought at the time how strange it all was."

According to Tyson, after being put on a pedestal, 'the 'good girl' had to remain uninterested in sexual activity, except for the purpose of legitimate procreation', and, when the good girl fails to achieve what is expected of her 'she is often punished'. Thus, the men's idealization of Mina puts her in a position of having to conform to their ideals, or to face punishment for failing. In contrast, Lucy is regarded as unfit for procreation altogether and this makes her worthless as well as evil in the eyes of the men.

#### <u>Chapter-3</u> <u>Sadomasochism: Calling of the Primitive Drive</u>

The field of psychoanalysis is quite a large body of works, consisting a plethora of neurosis and psychosis. The main crux of this approach is to explore the unconscious mind and to understand the cognitive ability of our brain. With the dawn of Victorian period, scientific development brought a new sense of awareness regarding our physical world. This sense of awareness, though at first was limited to the elements, gradually began to shift towards the inner realm of human anatomy. By the 1920's Sigmund Freud becomes the founder of psychoanalysis, he developed the practice of psychoanalysis to gain access into the unconscious part of the brain. Freud examined theories of fetishism and masochism/sadism as paradigmatic perversions articulate around three of his central theoretical constructs: infantile polymorphously perverse sexuality, the uncanny perception of the missing female phallus and the death drive. For Freud, perversion is initially a question of partial drives that fail to be harmonized into normal adult sexuality. Perversion, as he puts it, is the remnant of a failing Oedipus. Looking at this failure through the lens of fetishism, he attributes it to the uncanny perception of the absence of the missing female phallus and the ensuing rejection of castration. But when he uses masochism/sadism as the paradigm to explain the failure to harmonize the partial drives, it is the deadly character of the masochistic and sadistic drives that will be held responsible.

In his Dracula, Stoker deploys the same heteronormative dynamic of sexuality against the dark and supernatural force of Dracula's gender fluidity. There is a clear line that connects Freud's theory of perverse sexual drive and Stoker's representation of the 'Monster', who is none other than Dracula; Rosi Braidotti defines a monster as, "the bodily incarnation of difference from the basic human norm; it is a deviant, an a-anomaly; it is abnormal". Many critics agree in seeing Dracula as a transgressive force, the psychological or social significance. They attach him to the actual nature of the pleasures and anxieties which he produces very greatly. Dracula is the endless desire of the

unconscious for gratification. It is a self- fulfilment in the interest of maintaining social and psychological stability.

Dracula's binary nature poses the problematic notion of gender inversion. Dracula performs the role of the Victorian educated gentlemen well; more than once in Jonathan's account, he makes it clear that the Count is an educated man, well-versed not only in the customs of his own country, but in those of England as well. However, we cannot ignore the Count's typically effeminate passivity, nor can we neglect his interest in the necessity of child-rearing. Braidotti describes what she terms the fantasy of the male-born child, as a result of, "a paroxysm of hatred for the feminine; it inaugurated a flight from the female body in a desire to master the woman's generative powers". Though it is clear that Dracula is both a learned and cunning man, he does not exhibit any of the skills of these "men of the male kind," though he is able to do within his own body that which they are all striving to do, that is, to reproduce. There is plenty of research equating the virility of the blood of the vampire bite to semen; the figure of the vampire cannot be at all divorced from the sexuality that comes along with it, especially since his preferred victim is the young, virtuous woman. However, few critics have paid attention to the ways that vampire blood can be equated to elements of female reproduction, namely breast milk and menstrual blood. Dracula, existing along the gender binary, is occupying three roles at once: the phallic conqueror, the nursing mother, and the menstruating maid. Menstruation is often the indicator that an adolescent woman has reached sexual maturity. Societal norms aside, her body has attained the ability to reproduce.

This bedroom scene comes with a particular sense of horror for the male audience who discovers it, rendering them unable to immediately rescue Mina, something that should have been a critical priority. Dr. Seward writes, "What I saw appalled me. I felt my hair rise like bristles on the back of my neck, and my heart seemed to stand still". The scene before him is a carnal performance of oral sex without the presence of a phallus, and is therefore sex for sex's sake, "All sexual

practices other than those leading to healthy reproduction are suspected to be conductive to monstrous events". The positions of both Mina and Dracula in this scene fail to evoke any sort of image of the phallus. Mina's mouth is pressed directly onto the wound in Dracula's chest, lips to lips, an image of oral-vaginal sex. This presents an additional tier to Jonathan's fear of being "kiss with those red lips", especially when those lips belong to a formidable vampire who straddles the line of gender fluidity.

"A sadist", argues Freud in his early Three Essays on the Theory of Sexuality, "is always at the same time a masochist, although the active or the passive aspect of the perversion may be the more strongly developed in him and may represent his predominant sexual activity.", Secondly, as Deleuze has elaborated on in his extended essay "Coldness and Cruelty," the conflation of sadism and masochism has entailed that masochism has tended to be combined into an unequal relationship with sadism rather than considered as offering an autonomous economy of power and desire. Similarly Dracula exhibits both of the traits of gender-specific drives, creating a new variant of 'other'. In the psychoanalytic tradition, Freud, notably divided masochism into the three forms: erotogenic, moral, and feminine masochism and regarded the latter as being the, "most accessible to our observation and least problematical, and it can be surveyed in all its relations."

It is important to note, however, that feminine masochism did not necessarily have anything to do with women for Freud. This form of masochism is feminine because it positions the subject as a woman, that is, as "being castrated, or copulated with, or giving birth to a baby." And as Craft notes, "Dracula, after all, kisses these women out of their passivity and so endangers the stability of Van Helsing's symbolic system". For Jonathan, the threat of his wife turning into a woman who would "unsex" him awakens his own masculinity. Lucy's death scene is one of the most discussed scenes in the novel. It has been read as everything from a group sex encounter to a gang rape. A particularly interesting approach is to read it as a female castration narrative. Lucy's audacious sexuality places her as one of two extremes along the Virgin/Whore dichotomy, an

ancient cultural mode analysed by Wyman and Dionisopoulous: "While some whores are depicted as powerful - using sexuality to gain advantage - they are strongly associated with evil and viewed as a threat to those around them. The depiction of the powerful whore as a 'problem that has to be solved' negates the legitimacy of any power she displays"

Lucy's vampirism has given her the ability to reproduce without the necessity of heteronormative sexual intercourse, placing her in an unrivalled position of dominance over Arthur. Van Helsing, vigilant here as he is throughout the rest of the novel, preserves the phallic heternormative structure in preventing Arthur from being unsexed by Lucy, who has turned femme fatale in her vampirism. For Van Helsing and his following of heteronormative men of significant status, the best solution to the problem of Lucy is to eliminate this threat of active female sexuality by castrating it, using the image of the phallus itself. In the same vein, Lucy is silenced first by driving the phallic wooden stake through her, resulting in a grotesque reaction tantamount to an orgasm. "The Thing in the coffin writhed; and a hideous, blood-curdling screech came from the opened red lips. The body shook and quivered and twisted in wild contortions".

The dominating stake is not enough, however. Lucy returns to her original countenance, "her face of unequalled sweetness and purity". It is only once Lucy has been subdued by the phallus, evidence of her threatening sexuality gone, that Van Helsing allows Arthur to bend and kiss her: "For she is not a grinning devil now - not any more a foul Thing for all eternity". Just like that, when Jonathan sees the blood on Mina's nightgown and recognizes that she has transgressed against him in her recent quasi-sexual encounter with Dracula. Her desire for knowledge has strayed too far into Braidotti's realm of a desire for sexual knowledge, and Jonathan must obtain dominance before he, like Arthur, is castrating his wife in her grave. Instead, Jonathan must castrate he who sired her. Though he is not the one to deliver the killing blow in the phallic plunge of the stake, that is reserved for Quincy, the pinnacle of masculinity, he is the one who beheads Dracula with the kukri knife, another phallic object. Of course, Mina is present to witness the elimination of her proxy.

Though she is not on the receiving end of the brutality as Lucy is, she must bear witness to her husband restoring his inherent dominance in their marriage. Significantly, Mina "shriek[s] as she [secs] it shear through the throat" (491), as if it is she who is wounded and not Dracula.

It is also perhaps unsurprising that the tensions between the political and the private implications of sadism and masochism have so often been exemplified culturally by their expression in film. If Pier Paolo Pasolini's translation of Sade's 120 Days of Sodom into the economy of fascism in the 1940s Italy in Salo (1975) is explicitly concerned with the dehumanizing and depersonalizing dimension of systematic mass cruelty, for example, the entanglement of concentration camp torture and personal desire in Liliana Cavani's The Nightporter (1974) reveals the ways in which even the inhuman portrayal of Nazism can, in some cases, be personalised and sexualised. Issues of gender codification, bourgeois violence, and sadism/masochism are also investigated in Robert Van Ackeren's Woman in Flames (1983) and Monika Treut's and Elfie Mikesh's Seduction: Cruel Woman (1985). In Stoker's Dracula, the Count poses as the figurative representation of the contemporary fear of 'Reverse Colonization'. Tamara James Dickinson in RACE IN CLASSIC HORROR: DRACULA AND THE FEAR OF REVERSE COLONIALISM, argues that Dracula allowed Britain to, "[see] its own imperial practice in monstrous form."

Christopher Craft in his influential essay "Kiss me with those red lips" focuses upon the fear, expressed by an aggressive female about sexuality, the threat of the new woman and her rejection of conventional feminine roles. This essay, therefore, offers not a reading of monstrosity in general but rather an account of Bram Stoker's particular articulation of vampire metaphor in Dracula, a book whose fundamental anxiety, an equivocation about the relationship between desire and gender, repeats with a monstrous difference, a pivotal anxiety of late Victorian culture. He further adds, "The novel nonetheless, doesn't dismiss homoerotic desire and threat, rather it simply continues to diffuse and displace it. Later in the text the count himself announces a deflected homoeroticism when he admonishes the crew of light. Thus everywhere in the text such desire seeks a strongly deflected heterosexual distribution, only through women may touch men"

### Conclusion

A contemporary investigation of sadism, masochism and sadomasochism should be done starting from individual proclivities and the current subcultures of "BDSM", "Dom'sub dynamics", that have formed around them at one end of the spectrum, via their broader expression and interrogation in art, film, and fiction, to the realm of systematic political violence and its representations at its farthest end. This tell us about contemporary agency and the various structures and processes of power, violence, and desire in which they are enacted. Bram Stoker's Dracula illustrates the late Victorian Gothic, supernaturalizing real threats into monsters as coping mechanisms. Moreover he presented the problematic bend of heteronormative gender bias, by doing this he illustrates the primal drive of human nature, and as usually uses the Woman body as a site of violence, that has to be under patriarchal order. Stoker's Dracula undoubtedly employs psychoanalytic elements to gives the idea that the victims' mental problem or disorders are being treated fusing psychoanalytical and scientific methods. Professor Van Helsing is trying to examine characters' unconscious mind and discovers hidden causes of their mental problem, while himself being the representative of Patriarchal Sadism.



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## Geography



# BIDHAN CHANDRA COLLEGE

COURSE NAME: CARTOGRAPHIC TECHNIQUES

COURSE CODE : BSCHGEOC102

REG NO. : 103221220037

SEMESTER DISCIPLINE SESSION

GEOGRAPHY

2022 - 2023

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(c)	TOPOGRAPHICAL MAP
	Map Numbering system  Analysis of Physical and cultinal featurers and Internalationship Tonanspet chart  Average slope Oploting of cross and longitudinal Profiles  along a River.
D) (	WEATHER MAP
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# LINEAR SCALE

Definition: - A Scale when expressed only by Straight lines is called a

Features of linear scale; -

田 Lineau Scale One delawn from declarative on fractional Scales, 田 This Scale has two Poots. @Paimary division. @ Secondary division 用 Lineau Scale are drawn in two ways. @ Simple lineau Scale, @ comparative lineau Scale.

A Secondary division are shown at the four left of the scale.

Delaw a linear scale to show that 10 km. and 2 km. of the Primary and Secondary division can be reading respectively with the R.F. 1:350,000

> Fatom the given R.F. 1:3,50.000 we can get

1 cm suppresent 350000 cm. on goodand distance

1 m

100000 "

4 4

= 3.5 km.

### Polimany Division

22.85 cm

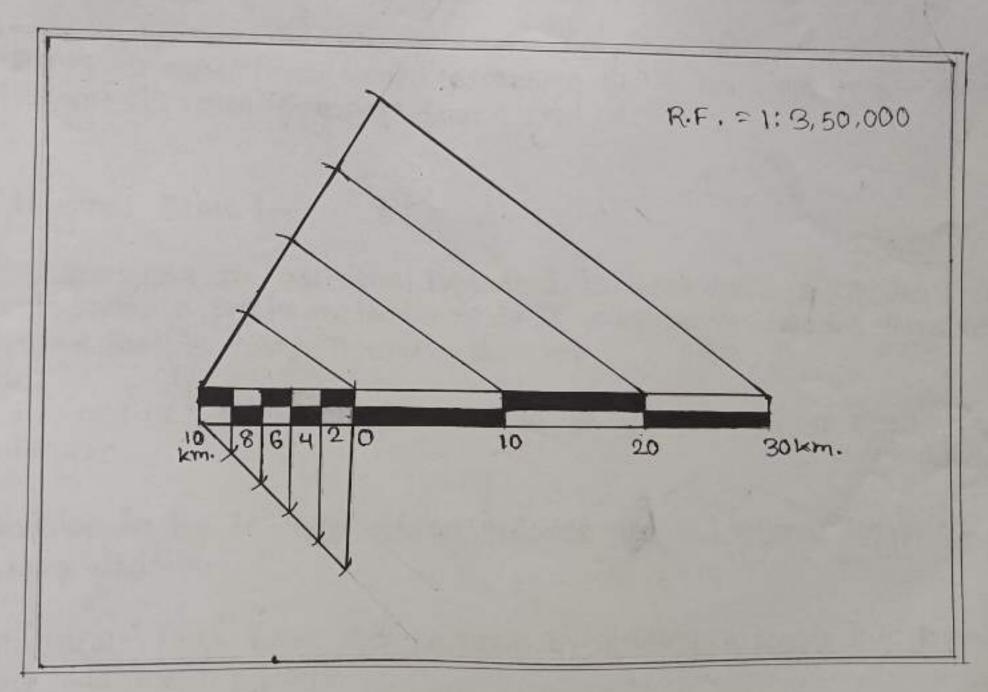
Hence, The total Polimany division as 4 So, that the total length of the Scale is (4x2.85 cm.)

Secondary division

\$ 11.2 cm.

Hence, The total secondary secondary division is = Polimory division value 10 km According to the condition, number of = 5 secondary division 25

# LINEAR SCALE



106°00

# DIAGONAL SCALE

Definition: The linear Scale in which the secondary Part is divided into Smaller Parts to read finer Values according to the Principle of Similar to training is called Diagonal Scale.

## teatures of Diagonal Scale:-

- This scale has on additional Pool that is theree Pools. After drawing the linear scale, a special method has to be adopted to draw the third Pool .

  The third Pool is called Terliary division.
- All divisions of tentiony Pants one done on the Principle of forming similar
- A division in the textiary division indicates the Bropostional length of the Secondary division
- In this scale, fineer value can be Head by dividing a length into Perimany, Secondary and Terriary Posits.

Denaco a Diagonal Scale to Show 3.57 meters and R.F. is 1:25

-> calculation for Diagonal Scale

Reading to be shown = (3.00+0.50+0.07) meters

2 (3 mtor × 1.00 + 5 mtor × 0.10 + 7 mtor × 0.01)

Division of Diagonal Scale -

Perimary	Division	secondary Division		Tentiany Division	
110	value	NO	value	NO	value
3 m/31	1.00	5 mta	0.10	4 mts	0.01

Forom the given R.F. 1:25, we can get,

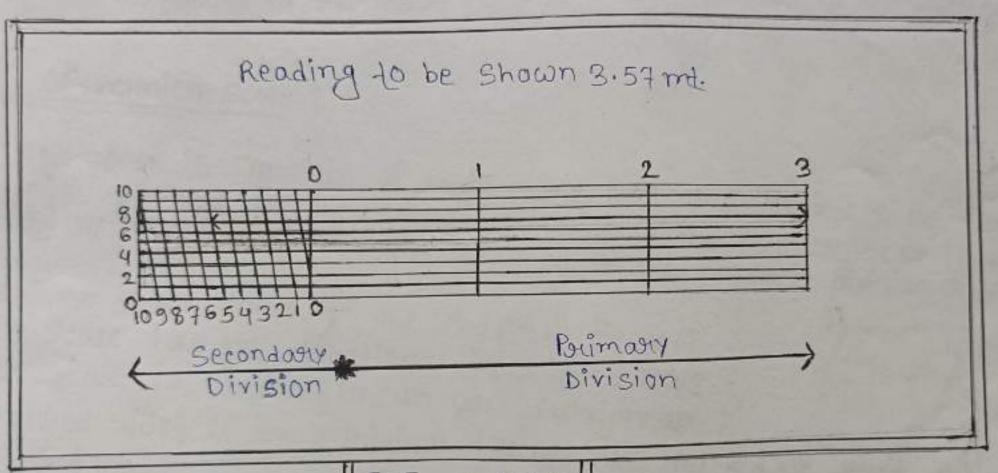
calculation foot Polimony division

0.25 m. on ground distance represent 1 cm. on map distance 1.00 u  $\frac{1.00}{0.25}$  u  $\frac{1.00}{0.25}$ 

2 4 cm

Let, the number of Brimary division is 24
Hence, the total length of the scale is (4x4) 216 cm

## DIAGONL SCALE



R.F. = 1:25



## VERNIER SCALE

Definition: Vernier scale is a small and sliding scale attached along the edge of the main scale to measure the fractional Part of one division that is least count of the main scale very accurately.

## Features of Vennier scale:

- Verinier Scale is consists of main scale Part and Verinier Scale Part.

  The length on value of the Smallest division of the Verinier scale is always greater on less than the length on value of the Smallest division of the Original Scale.
- The Vennien Scale touches the original Scale.
- Vennien Scale has no fractional index (R.F.) Value.
- -> Vernier scale is simple linear or curvilinear.
- The marked side of the original touches the marked on graduated side of the Vernier Part.
- The Vennien Pant can be moved to the night and left while keeping the original Scale fixed.
- -> Vernier has an index mark. This is indicating the zero of the Vernier.

Deraco a Vernier Scale to read 5.48" Where 9 main scale division are equals to 10

Step-4

 $v \cdot c = \frac{d}{h} = \frac{0.01}{10} = 0.01$  inch

where,
d= value of the one smallest main scale
n= number of vernier scale division

Step-2

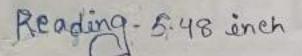
Reading to be shown = Main Scale neading + Vennier scale neading = 5.4+0.08

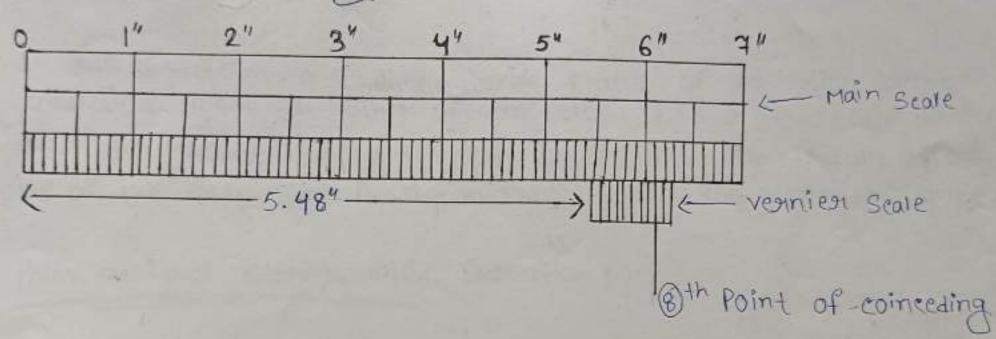
SteP-3

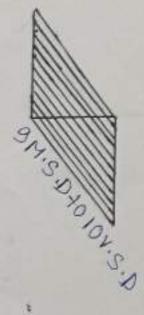
No. of Vennien division coinceding with any of the main scale division.

Total needing - Main scale needing = 5.48-5.4 28th Point of vennien constant

## VERNIER SCALE







9 main scale division are equal to 10 Vernier scale division

verinier constant = 0.01 inch

M. QOD 19/1/23

# POLAR ZENITHAL STEREOGRA-PHIC PROJECTION

Definition: — In this BioJection, a 2 dimensional Plane of BioJection touches the generating globe at either of the Poles. It is a Perspective BioJection, with the Source of light lying at the Pole diametrically opposite to one of the which the BioJection Plane touces the generating globe.

Features of Poran zenithal Sterreggraphic Protection:

A True hostizon quality is maintained forom the center of this PoroJection.

This ParoJection is suitable foor maps located in Polovi negions.

The Broteetian center towards the Pempheny.

Delaw the geneticules of Polan zenithal steneogenophic Penotection for the map of Nantheen hemisphere at an interval of 15° on a scale of 1:225000 000

→ calculation :-

Step-y -> Radious of the generating globe (R) = Actual radious of the earth Denominator of R.F.

225,000,000

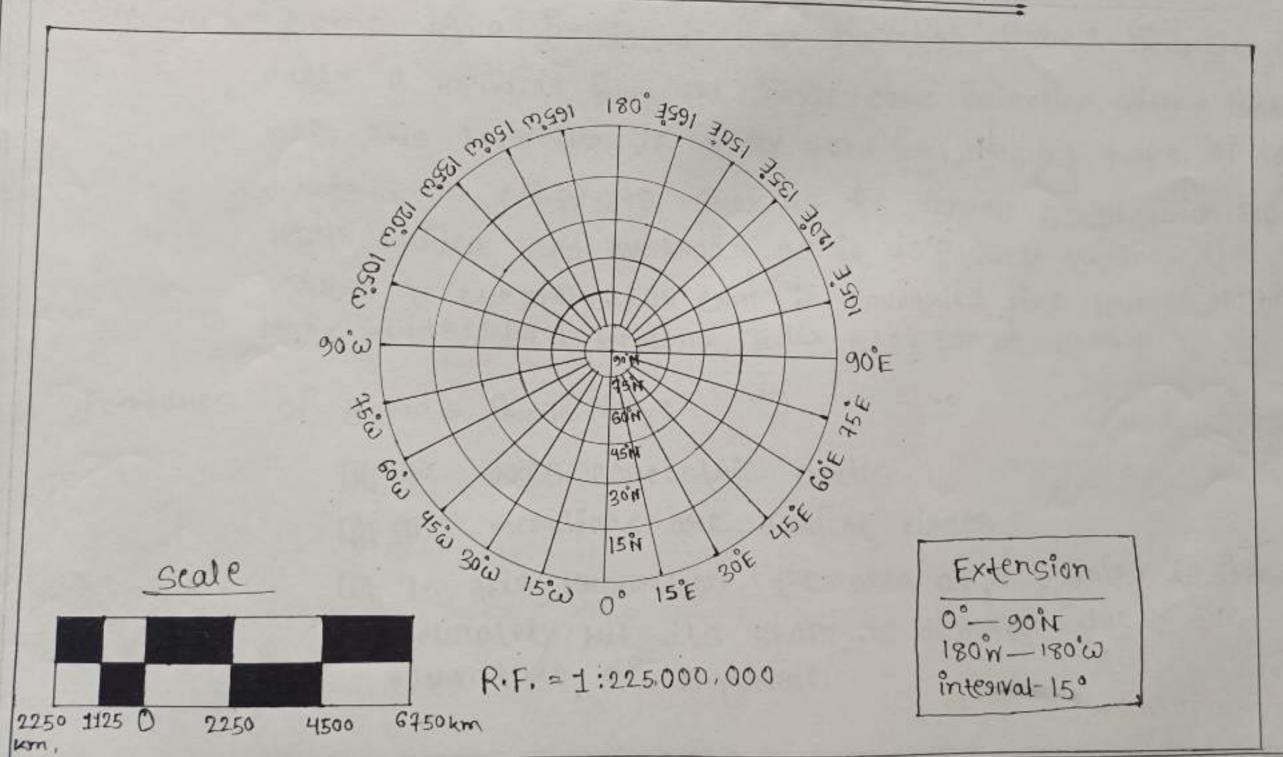
2 2.84 cm.

Step-2 -> Parallels to be drawn - 0°, 15°N, 30°N, 45°N, 60°N, 75°N, 90°N Meridians to be drawn - 0°, 15°E/W, 30°E/W, 45°E/W, 60°E/W,  $45^{\circ}$ E/W,  $60^{\circ}$ E/W,  $60^{\circ}$ E/W,  $45^{\circ}$ E/W,  $105^{\circ}$ E/W,  $120^{\circ}$ E/W,  $135^{\circ}$ E/W,  $150^{\circ}$ E/W,  $165^{\circ}$ E/W,  $180^{\circ}$ E/W.

# Step= -> Radious of any Parallel (0)= 2R tan (20°-0)

θ	R(em)	2R (cm)	( <u>20°-0</u> )	tan (200-0)	2Rtan (3020)
00	2.84	5.68	45°	1	5.68
15°M	2.84	5.68	37°30′	0.76	4.36
30,M	2.84	5.68	30°	0.57	3.28
45°N	2.84	5.68	22° 30′	0.41	2.35
60,N	2.84	5.68	15°	0.26	1.52
75°N	2.84	5.68	7°30′	0.13	0.74
90°N	2.84	5.68	0.	0	

# POLAR ZENITHAL STEREOGRA-PHIC PROJECTION



M. April 23

## BONNE'S PROJECTION

Definition :- Bonne is a fseudoconic map Brotection. Borne's Protection is called a modified from the Simple conic Brotection with a Broof axis. This Protection is widely used for drawing maps of large countries are confinents such as the farmer soviet union, Europe, North America and Australia as it is possible to show the valume a countries, Far example countries sike France, Natherland, Scaitzerland, Belgium, India etc. can be shown.

Features of Bonne's Projection:-

The axes concentaire circles.

In The mesuidians one Penfect visices.

III In this ParoJection, the onea of a country is found accurately but its shape is distorted due to the eurotune of longitude.

\* Delaw a geraticules on Bonne's Brodection Pau extension 20°N to 60°N and 40°E to 100°E at 10° interval on Scale 1:625,000,000

Step-y

Radious of the neduced Easth = Easth actual nadious

R.F.
640,000,000

2 640,000,000

> 40.24

Step-2

Selection of Standard Parallels - 20°N, 30°N, 40°N, 50°N, 60°N Therefore, Standard Parallel is = 40°N

Step-3

Selection of central Mestidians - 40°E, 50°E, 60°E, 40°E, 80°E, 90°E, 100°E
Therefore, central Mestidian is 2 [70°E]

Division along the central Menidians spaceing of the Parallel = TRXI

SteP-5

Radious of the Standaud Paulules RO = RCOto = 10.24 × 1/4 n = 12.20

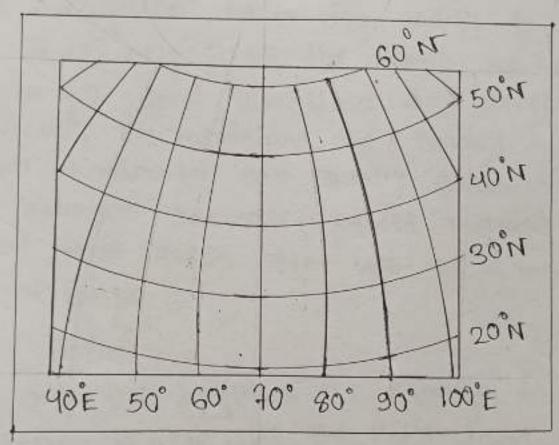
3teP-6

Division along the Parallels for spaceing of the Mesidians.

d0 = TR YIXCOSO

0	Rinem	TR XIXCOSO
20°N	10.24	1.68
30°N	10.24	1.55
40°N	10.24	1.36
20.N	10.24	1.15
60°N	10.24	0.89

# BONNE'S PROJECTION



Seale

625°31250 6250 12500 18750 km

R.F = 1: 625.000.000

Extension

2011 to 60°N

40°E to 100°E

interval-10°

19 01 23

## MERCATOR PROJECTION

The Mesicotosi Brotection is a cylindrical map Brotection Bresented by the Flemied geographes and costagoraphen Grandus Mesicatosi, in 1563 Mesicatosi Brotection the Standard Brotection has navigation due to its ability to conserve lines of constant course; that it is suppresents the north as up and South as down everywhere white Preserving local discretions and shapes. The Mesicator Brotection is archived mathematically. The mesidians are equally spaced Vertical lines, and the latitudes are Posallel hostizental are equally spaced Vertical farther apart as Groggle maps. Birg map, map quest etc. use as a mesicator called web for Perities in their map images.

In this Paroaection only the length of the equator to the length of the equation of the careative sphere. At the Poron Point their length is infinite.

The scale form the equation to the both Poles, the area and the amount of distance deviation increases at a very marid rate.

■ Paranels and mesidians interfeet each other at sight-apples.

Delaw a geraticules at 20° interval on scale 4:297 × 106 fau the whole globe.

Step-1

Radious of the generating globe, R = Actual Radious of the easith Denominator of the R.F.

Step-2

 $R = \frac{640 \times 106}{297 \times 106} = 2.15 \text{ cm}$ 

The division along the equator for spacing the menidians at 20' interval  $d = \frac{2 \times R}{360^{\circ}} \times I = \frac{2 \times 3.14 \times 2.15}{360^{\circ}} \times 20' = 0.45 \text{ cm}$ Step-3

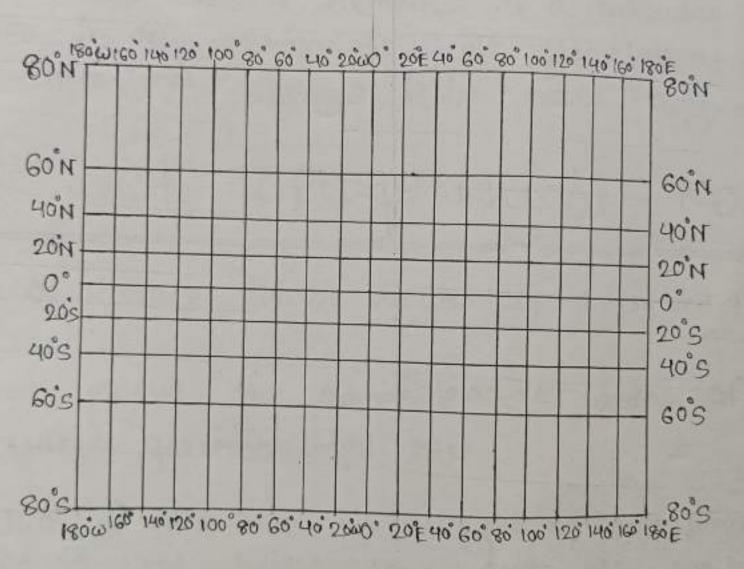
The hight of any Panallel (40) above equator  $y\theta = 2.3026$  log tan  $(\frac{90^{\circ}+0}{2})$ 

θ	20° N/S	40° N/S	60°N/S	80° N/S
(30°+ 0)	55	65	7.5	85
2.3026 R 189 ton (20+0)	0.766	1.640	2.831	5.237

Step-4

Posituels to be duawn - 20°N/s, 40°N/s, 60°N/s, 80°N/s Mesuidians to be duawn - 0°, 20°E/ω, 40°E/ω, 60°E/ω, 80°E/ω, 100°E/ω, 120°E/ω, 140°E/ω, 160°E/ω, 180°E/ω

# MERCATOR PROJECTION



R.F. = 1: 297 X106

Extension whale would

# Concept of Topogenaphical Map

When the natural and cultural elements of a Particular latitudinal and logitudinal oregion in an appropriate Scale, geometrically and mathematically using various conventional symbols, it is called topographical map.

# Impositance of Topoquaphical Map

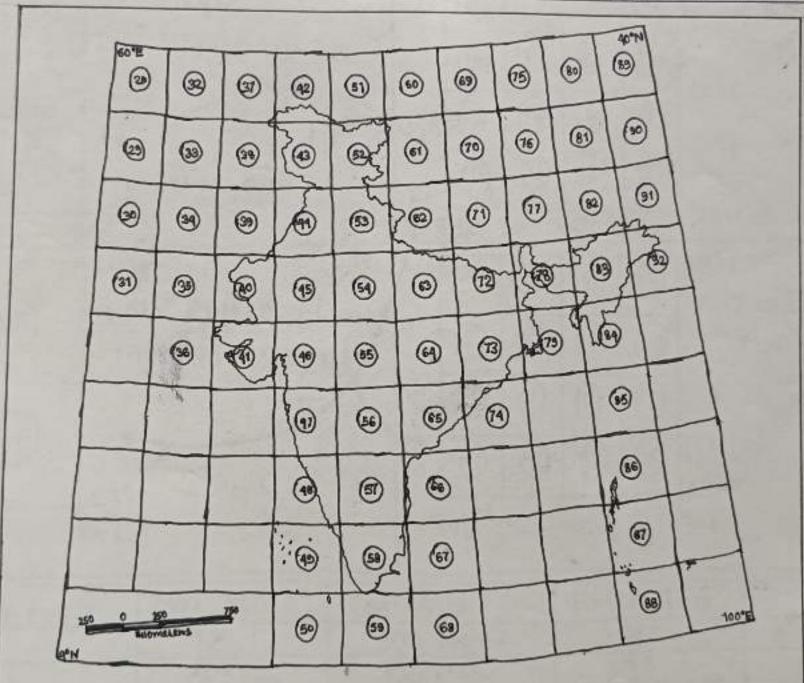
The location of a Place can be accusiately determined based on latitude and longitude.

It is known about the administrative areas of a region that is states, districts, governouships etc.

With the helps of this map, the topography and land characteristics of a orgain that is land height, land slope etc. can be known in detail.

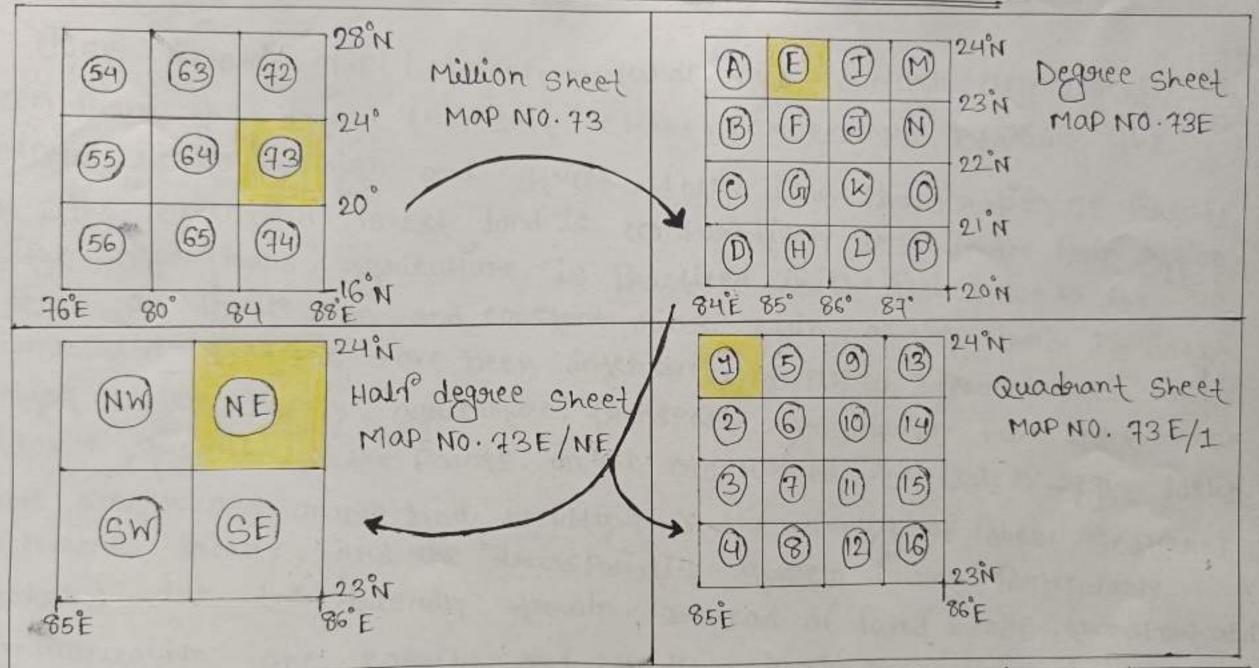
Topographical maps are required far planning the development of an area such as new settlements, setting up of industries, confine-tion of soulways, groads etc.

# LAYOUT OF MILLION SHEETS CO-VERING THE INDIAN CONTINENT



20 or 23

# NUMBER SYSTEMS



Maria all 1 al and	MAP NO.	contous	Extension	R.F
Name of the sheet	73	500 Mtg1	40	1:1,000,000
Million Sheet	73E	refm ool	1°	1:250,000
Degace sheet	73-E	50 M to	301	1:100,000
Half degree sheet	735	10-20 Mts	151	1:50,000

Sangrop 19 01 23.

### INTERPRETATION

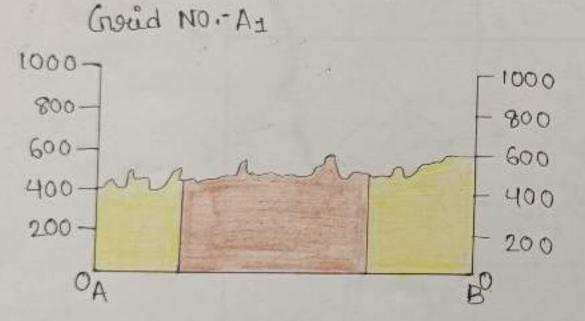
A close relationship between natural and cultural elements can be Seen forom the drawn transect chart. For example, beacause the Plateau siegion is high and street, there is a Perosiferation of facest. But, the extent of forest land is companatively less in the Prain organ. on the Other hand, agriculture is Bracticed in the Plains due to the Pose sence of fertile sion and constant rives. Again, as the fereign is flat commucation systems have been intensively developed. Improvements in downking water supply, agriculture, transport and indulary have led to dense Population growth in the Points. on the other hand, the Platear region lacks Possible water and another land, nesulting in the deaning of forest Scattered Settlements locally, and the teransporation system is not Particularly developed due the faiendly femain. Instead of faved awads, townsport and communication are cosmied out by disty swads. Forcestory agriculture, teranspositation, communication systems and human settlements are closely eveloted to topogenophy.

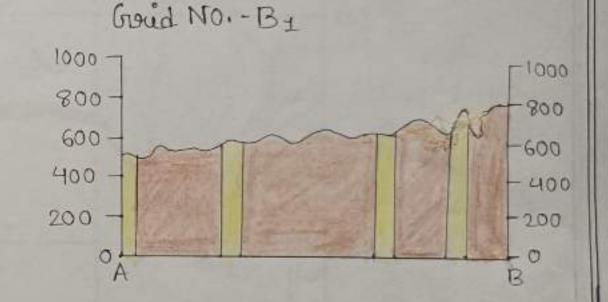
### PHYSIOGRAPHIC DIVISION

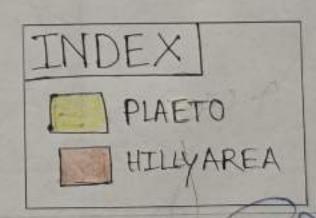
BIHAR HAZARIBAGI DISTRICT

Map NO. 73.5

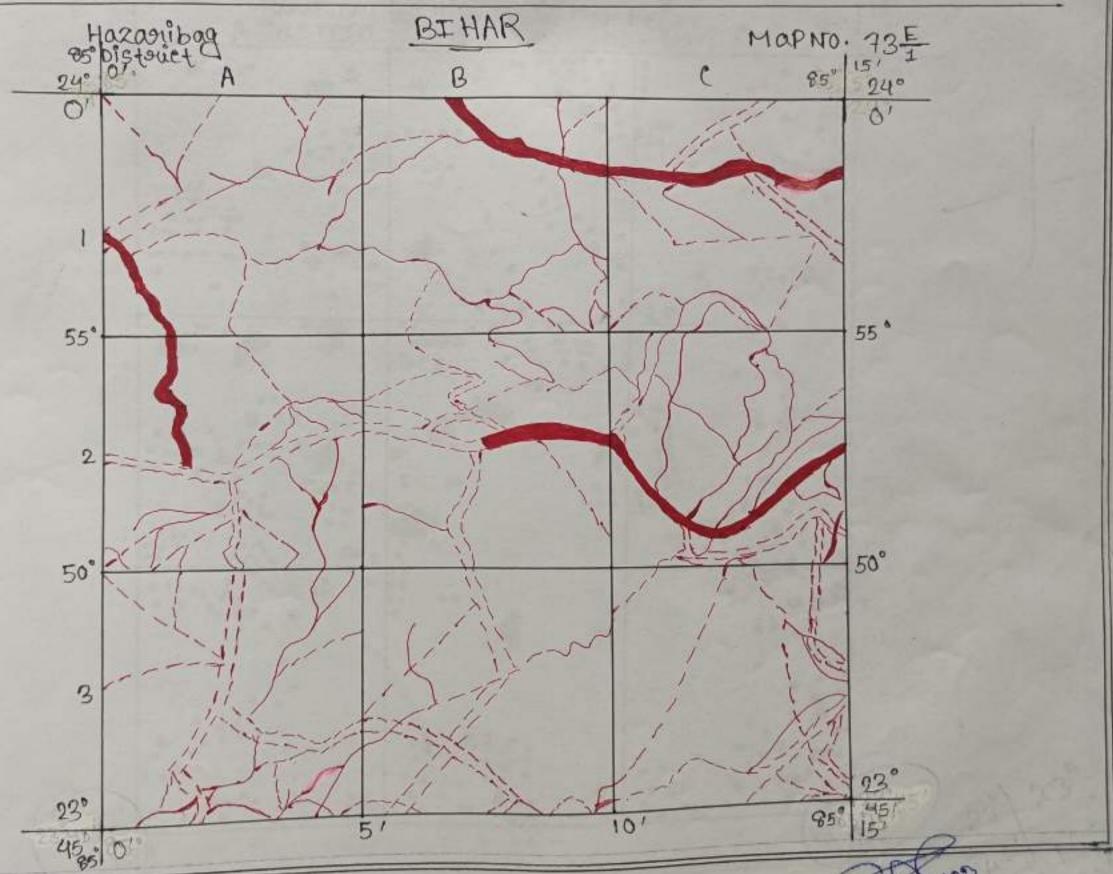
PHYSIOGRAPHIC PROFILE ALONG AB LINE

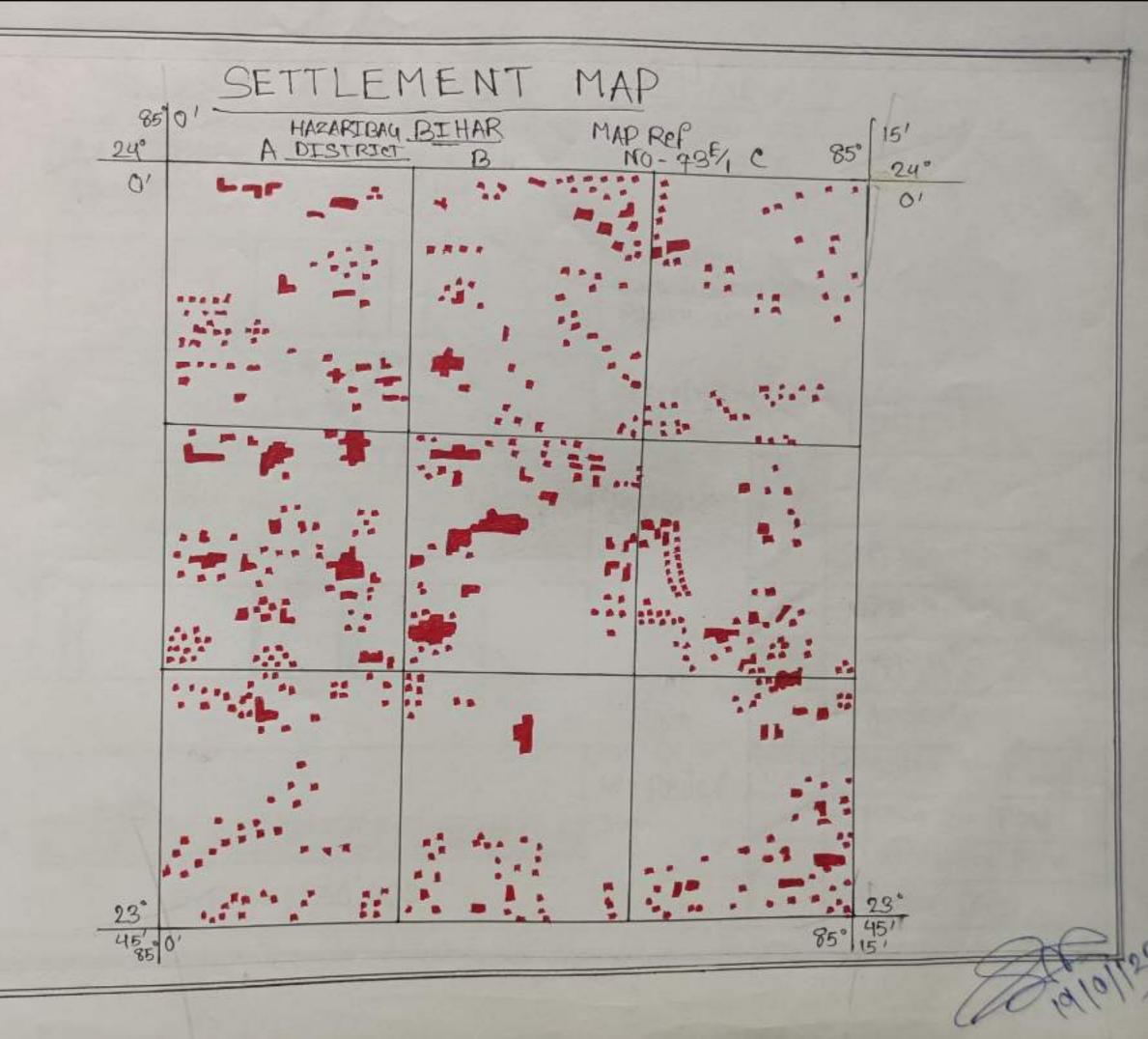




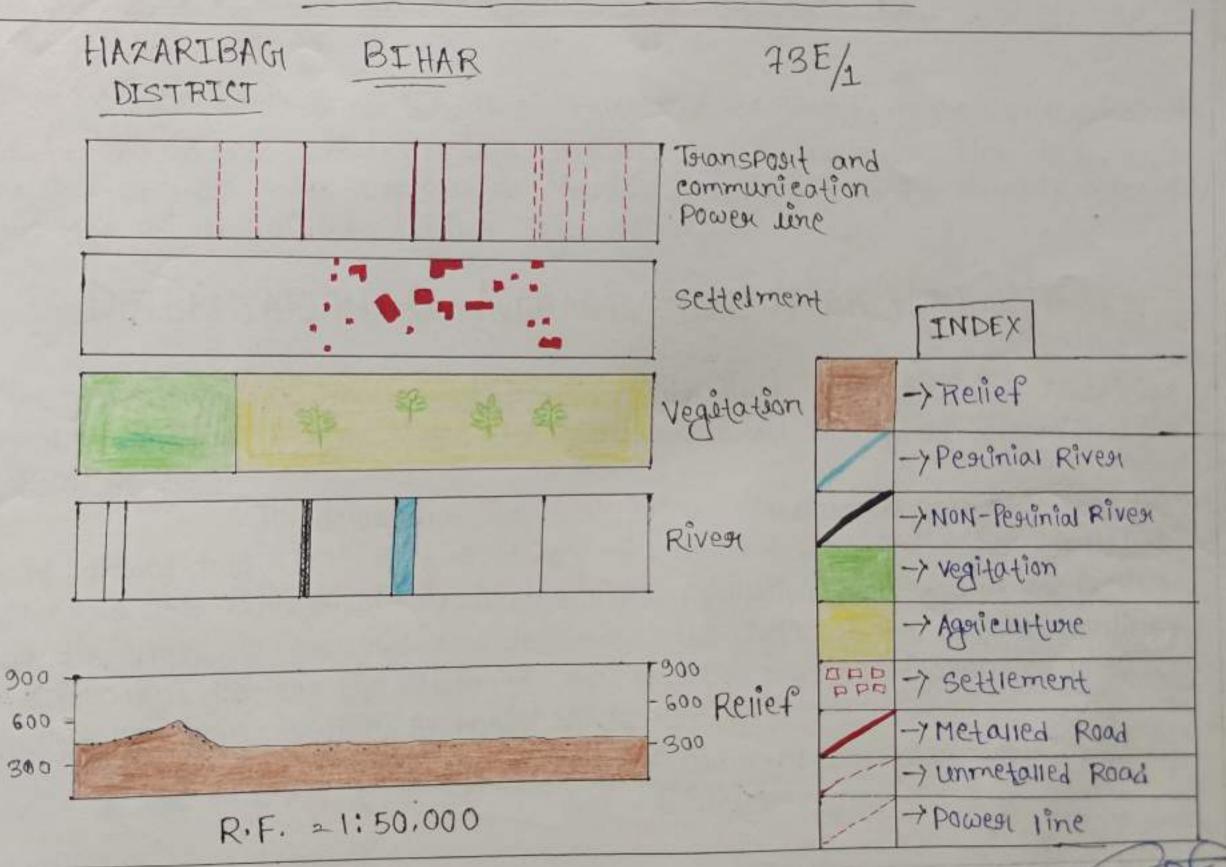


#### BROD TRANSPORT AND COMMUNICATION MAP





#### TRANSECT CHART



# AVERAGE SLOPE

The Slope of the earth is an important element of the land from that actually indicates the Slope of earth's Surface. It is a quantity and it has a two side-(i) (ii) direction. In most cases the average value is determined from the diversity index map without the opinion of the surface degradation.

#### DETERMIATION OF AVERAGE SLOPE AFTER WENTWORTH

In the year 1930. C.k. Wentworth Published the first Value 5 of the American Journal of Science. A Very Simple and Straighforword method of determining the Slope of Hs land.

To determine the SIOPE of the landform a geographic map the map is divided into 1"x1" that is I mile x mile of land area. The representative determines the number of according lines calculating the asanding line Passing along the grange to eachgoid, and determine the SIOPE of the land a accordingly to the following formula by determing the average number of asanding lines.

According the cors system. Average SIOPE—

0 = tan-1 (Average number of countour crossing x contour Interval)

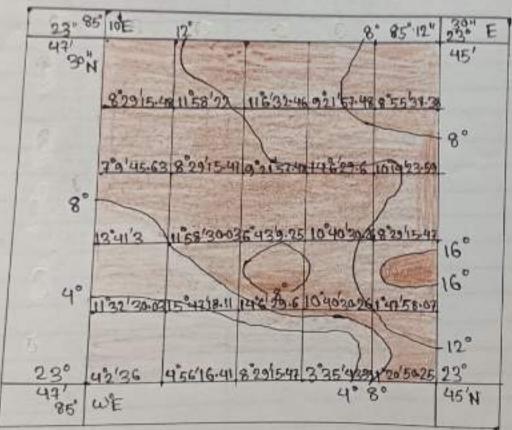
GRID NO	NO OF CONTOUR CROSSING	AVERAGE NO. OF CONTOUR CROSSING (ACC)	AVERAGE SLOPE ton-1 Acexc1
Aı	19	4.75	8°29′ 15.48
A2	16	4	7° 9′ 45.63
As	31	7.75	13°41′3
Ay	2.6	6.5	11° 32′ 30.03
A 5	9	2.25	4° 2′ 36
Bı	2.7	6.75	11° 58′ 22
B <sub>1</sub> B <sub>2</sub>	19	4.75	8°29115.47
B3	26	6.5	11°58130.03
By.	36	9	15° 47' 18.11
B 5	11	2.75	4° 56′ 16.41
Cı	25	6.25	11°6′ 32.46
C2	21	5.25	9° 21′ 57 · 48
(3	15	3,75	6° 43′ 3.25
Cu	32	8	14.6, 50.6
C4 C5	19	4.75	8° 29 / 15.47
Di	21	5.25	9°21′57.48
D2	32	8	14°6′23.6
D3	24	6	10°40′30.26
Dy	24	6	10° 40′ 30.26
D5		2 5	3° 35/43.39
Ei	20	- Control of the Cont	8° 551 38.38
E <sub>2</sub>	23	5.45	10'14' 23.59
E3	19	4.75	8°29/15.47 1°47/58.07
	4		1° 20′ 59.25
Ey	h	0.75	

### AVERAGE SLOPE

BIHAR

DISTRICT- HAZARIBAG

MAPNO . 73 E/4



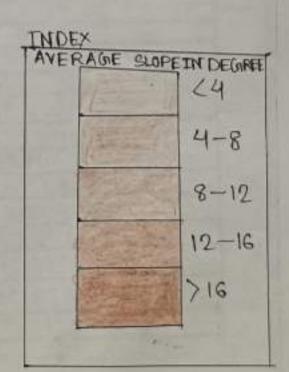
scale

GRAPHICAL SCALE >> 20m - 1km.

R.F. 2 1:50,000

2 h5 1 0.50 1 2 3km

12 11 12 12 V



DRID NO	NO. OF CONTOUR	AVERAGE NO. OF CONTOUR	AVERAGE SLOPE
	CROSSING	CROSSING	Tant = Acexel
			636.6
Aı	19	4.45	8° 29 / 15.47
A2	19	4.75	8° 29' 15.47
	20	5	-8°55/38.38
A3 A4	15	3,75	6°43′ 9.25
As	2	0.5	0°53′59.83
Bi	30 17	7.5	13° 151 30.88
B2	17	4.25	7°36′18.92
<u>B3</u>	26	6.5	11°32′ 30.03
B3 B4 B5	16	0	709/45.63
61	34	8.5	14°57′5.69
	28	2	12° 24/10.64
C2	25	6.25	11°6′32.46
Cy	31	4.45	13° 41′3
- C5	2	0.5	0°53′59.83
Di		7.5	13°15′30.88
D <sub>2</sub>	30	8	140 6129.6
D3	16	4	7 ° 9 ′ 45.63
Dy	23	5.75	10° 14' 23.59
D5	5	1.25	2° 14′ 59.09 5° 23/3.34
EI	12	3	120 24/ 10.64
E <sub>2</sub>	28		14°57′5.69
Eg	34	8.5	19° 27' 55.63
Eq	43	11.25	19 21 99.65
Es	21	5.25	9° 21'57.48

0

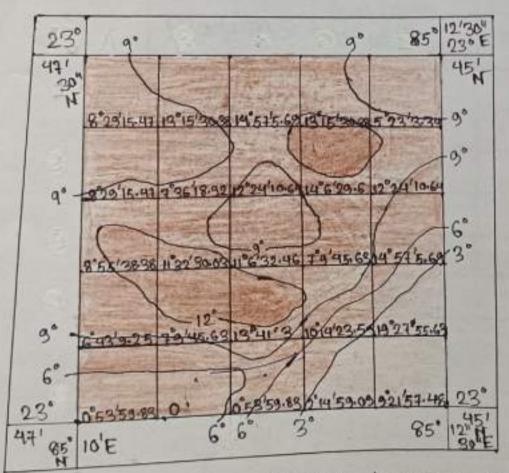
(3)

# AVERAGE SLOPE

BIHAR

DISTRICT - HAZARIBAG

MAP NO.73E/1

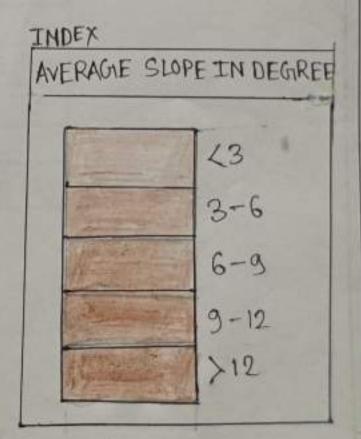


GRAFICAL SCALE > 2 cm = 1 km

2 1:51 0:50 1 2 3 km

scale

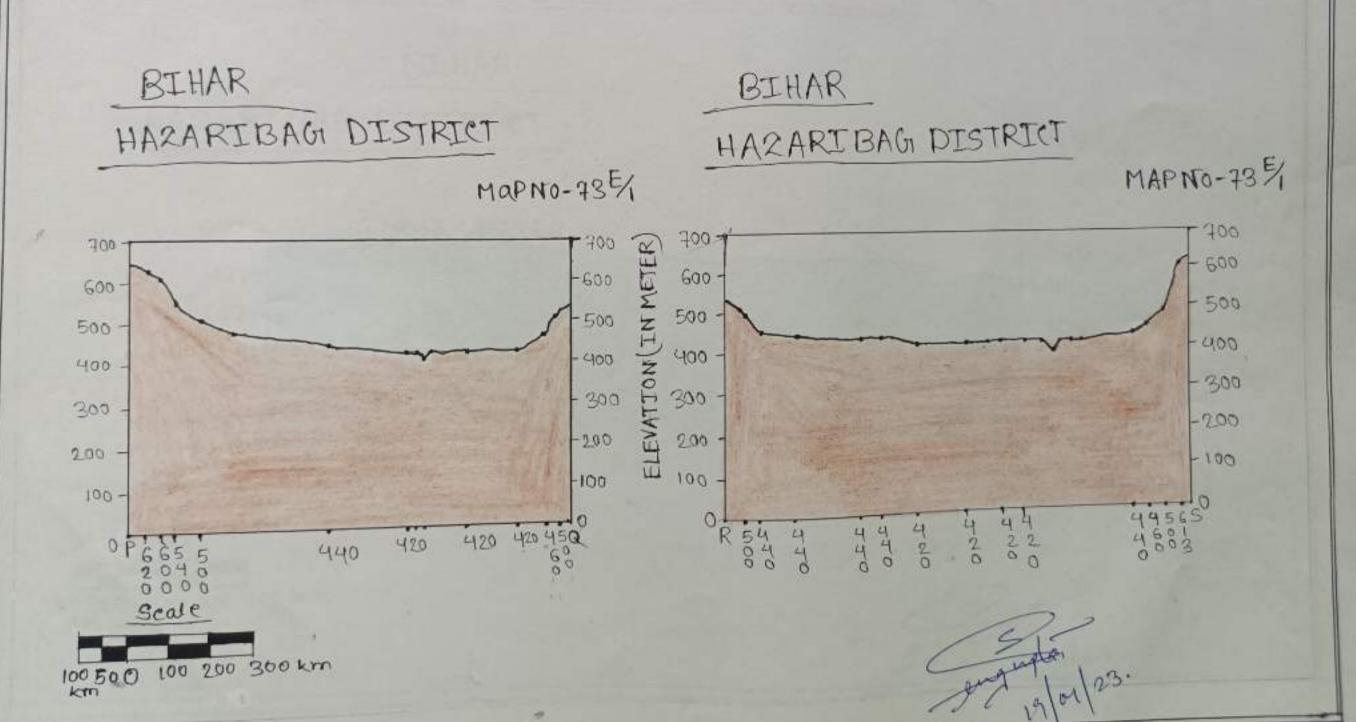
R.F. = 1:50,000



# RIVER LONG PROFILE AND CROSS PROFILE

Stations	contour value in metere	Rotametere Reading in (ci)	Scale 1 cm2
Aı	460	0	0
Ag	440	2	1
A <sub>2</sub>	440	5	2.5
Ag	420	17	8.5
Ay	420	22_	11
A <sub>5</sub>	400	37	18.5

# COSS PROFILE OF GARHI RIVER

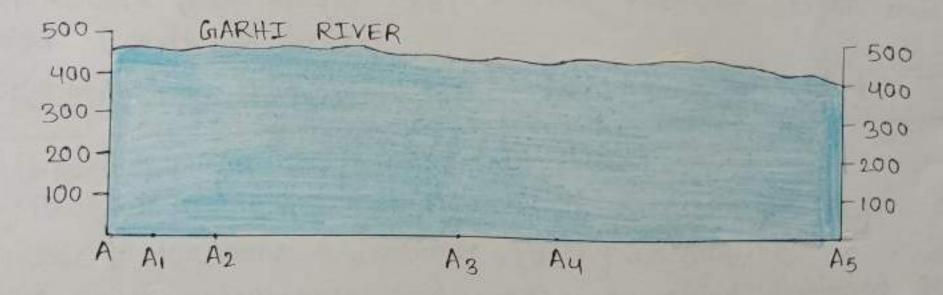


# LONG PROFILE ()F GARHI RIVER

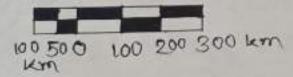
BIHAR

HAZARIBAG DISTRICT

Map No. 73 E/1



seale



Jugualo: 10 23.

## WEATHER MAP

DEFINITION: - A weather one that Porturys weather elements recorded at a Particular instant of whale would are Part of it. Normally, the weather elements are shown either by conventional symbols by absolute humerical values are by codes.

Example: - The weather map shows the weather conditions as recorded at 08:30 har I.S.T [03:00 har (n.M.T] on sunday 22 July 1973. Obviously the weather map represents that of the south-west monsoon season which is Brecisely the Period of rain in India.

#### THE PRIMARY CHARACTERESTIC AS SHOWN BY THE MAP

1 LOW Pressure: 996 mb [at the mid India]

1 High Paressure: 1012 mb [at the South western Anabie]

(11) ISObasie: Monsoon, 9 isobasie, Patery in outline

(1) Wind: South-westerinly and westernly wind dominant gentle to windly

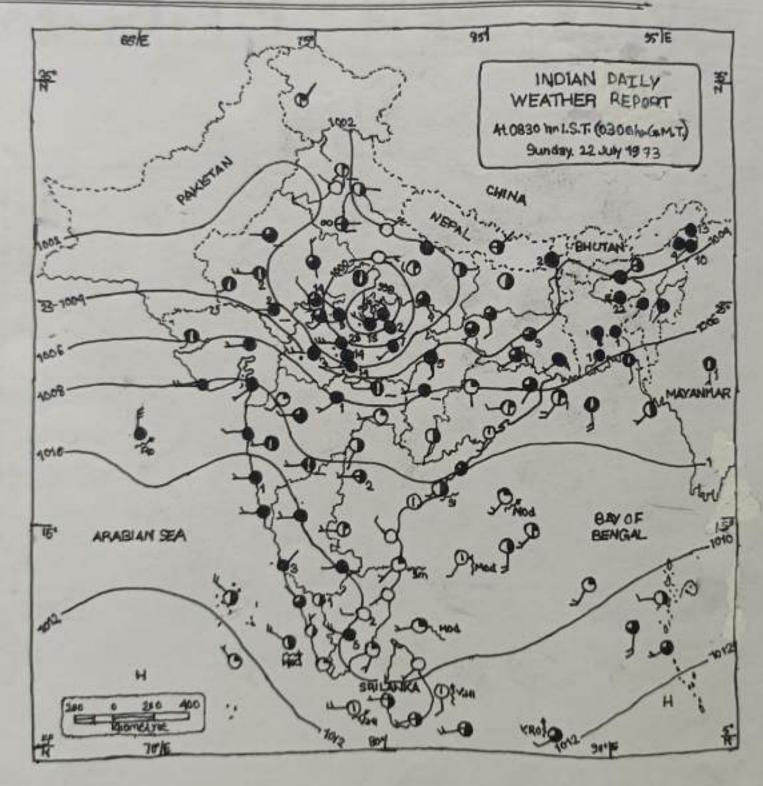
Vi Rainfall: Mostly in the north-eastern and south-eastern himy states.

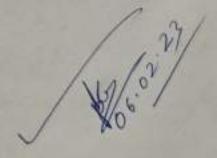
of sea: Mainly moderate and smooth

Hence, thorough it is monsoon in swing because of well distailabled cloudness and mainfall, the Palesence on any Steep Palessume gradient

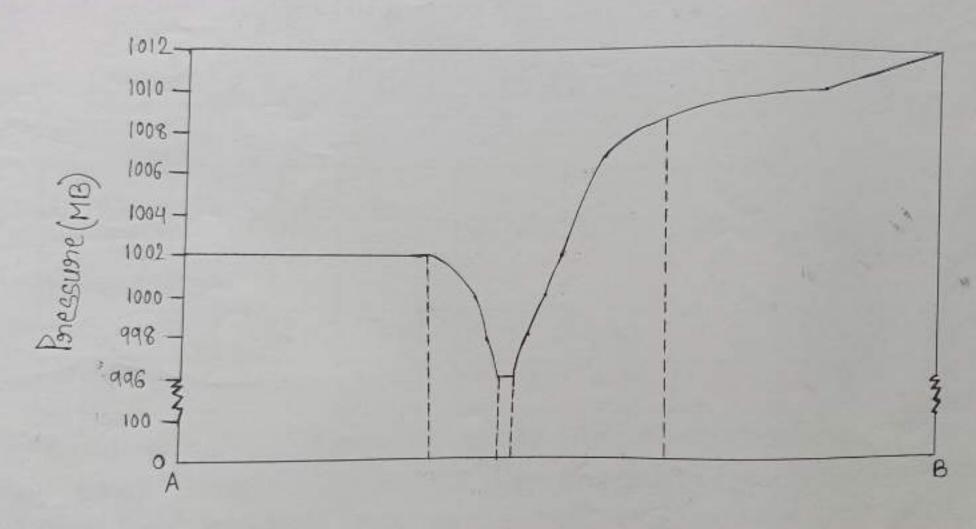
and high valority winds

#### INDIAN DAILY WEATHER REPORT



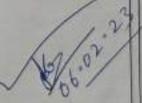


# ISOBARIC CROSS SECTION ALONG THE LINE AB



0

Scale 1 cm = 2 mb



# CLOUD COVER

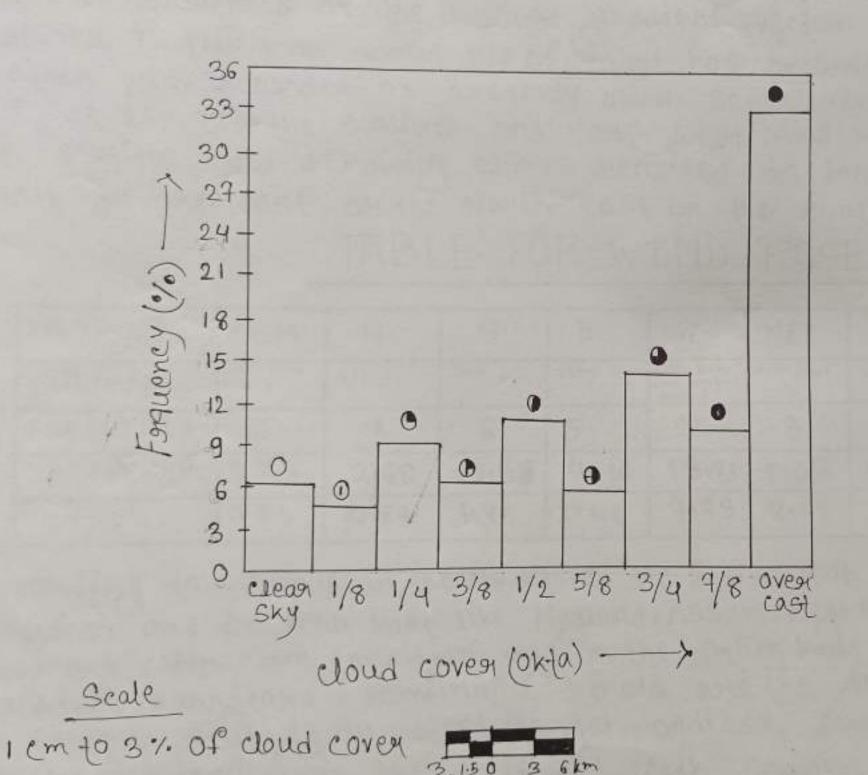
The moist and rain bearing south-westerly season of monsoon wind have Produced clouds varying intensity depending upon the local situation of atmosphere instability.

### TABLE FOR CLOUD COVER

CLOUD. COVER	CLEAR	1/8	1/4	3/8	1/2	5/8	3/4	7/8	OVER	TOTAL
TALLY MARK	<del>1111-</del> 11	4111	1111-1111	4111-11	111 111-	+111-1	+111 +111	4111-4111-	### +*** +*** **** *******	
FRAUENCY	7	5	10	7	13	6	16	11	37	112
% OF FROUENCY	6.25	4.46	8.93	6.25	11.61	5.36	14.28	9.82	33.03	
SCALE ICM=3	2.08	1.48	2.97	2.08	3.57	1.78	4.76	3.27	11.01	

According to the table 33% of the stations succorded completely overlost on full covery Sky. While about 6% of the stations obsolutely clean overlast conditions were found in the Places of Gruzinat, Madhyapsiadesh, Mahanashtina, Kaomataka and also in the Part of eastern India, Bihan, west Bengal, Assam, Meghalaya, Nagaland. Cloudness sky of clean sky has been neconded at Hariyana, Bonden areas of uttamphadesh, Punjab, Himachal Pradesh, Tamilmadu and in Andhrapsiadesh over the nest of the continent partlas cloudly sky manging from 1/8 th - 7/8 th has been neconded.

## CLOUD COVER DIAGRAM



My 66.02 23

# WIND DIRECTION

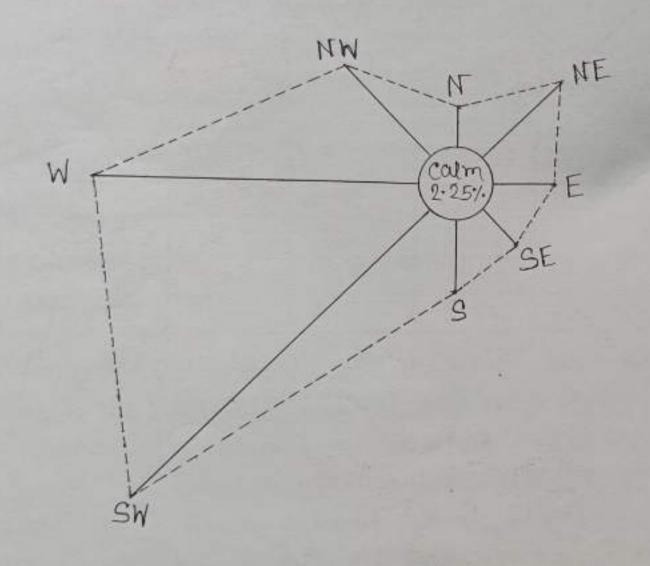
Nonmany, wind blows from high Bressure to low Pressure. The direction of surface wind is influenced by the Bressure gradient. Vector corridis force and surface features. In this map about 14% of wind has recorded as calm conditions and another 23% recorded as westerly wind. South westerly wind have been recorded at 29% of the stolions and north west wind have been recorded at 3% of the stolions and north west wind have been recorded at 3% of the stolions and remaining winds recorded as local winds blowing from the north or the east or the south east.

TABLE FOR WIND PROSE

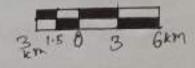
WIND DIRECTION	CALM	N	S	E	W	NE	SE	NM	SW	TOTAL
TALLYMARK	<del>++++</del> ++++	111	1111	HIT	**** *********************************	<del>4111</del> 1111	tiii	-1111-1111	++++++++	
FREQUENCY	16	3	6	5	26	9	4	10	33	112
" OF FREQUENCY	2.25	2.68	5.36	4.46	23.21	8.03	3.57	8.93	29.46	
SCALE 1 cm = 3%	0.75	0.89	1.78	1.48	7.43	2.69	1-19	2.97	9.82	199

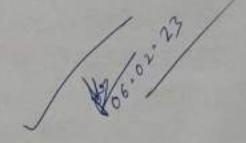
According to the map in the middle of the Indian Sub continent some Past of Madhy-apsiadesh and eastern Post like Nagrand, Assam, Meghalaya, Manipus asse the segions dominant with cour condition and on the Other hand Rajasthan, Gujerat, Maha-sushtora, Kasinataka, Tamilinadu, Kerala are the dominant with western wind in eastern part agalu, west Bengal, Oddissa, some Port of the Tamilinadu, And heapsiadesh are the dominant with south-western wind.

## WIND ROSE DIAGRAM



1 cm to 3 % of Wind 2105e





# WIND VELOCITY

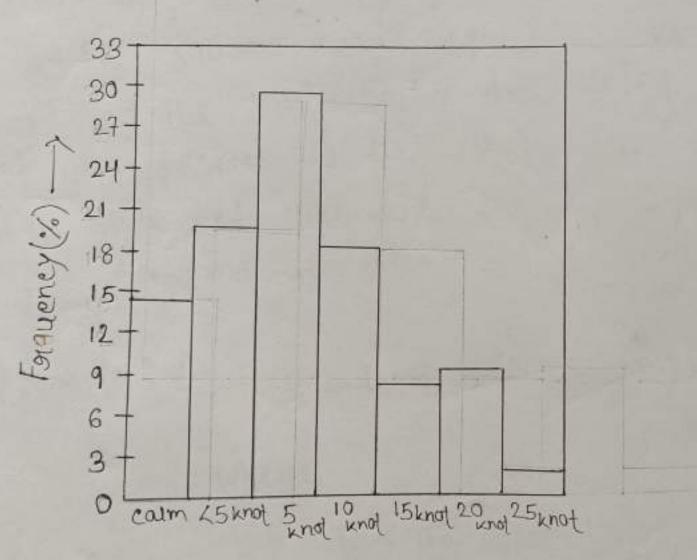
The valocity of the wind depends the Ponessure guadient fonce. It is also in funenced by geostorophic conditions. The dequee of Pensistance of the Brevalling System and also accurance of components if any. In season of south west monsoon the Pattern of circulation mainly governed by the flow vector of the teronsient equationial monsoon himmass.

## TABLE FOR WIND VELOCITY

WIND VELOCITY	CALM	C5 KNOT	5 KNOT	10 knot	4=1			
	A 100 1	(A) (B) (B)	(S) (S) (S)		15 kmot	20 KNOT	25 KNOT	TOTAL
1000		**** 11	**** +*** 11.1	4111 1111 1111	*** UII	++++		
REQUENCY	16	22	33	20		The second second	8 II	
OF FREQUENCY		10 0 11	National State of the Land of		9	10	2	112
	14.28	19.64	29.46	17.86	8-03	8.93	1.00	3000
SCAL 1Cm=3	4.76	6.54	9.82	5.00			1.48	2
10.7.3			7 02	5.95	2.67	2.97	0.59	

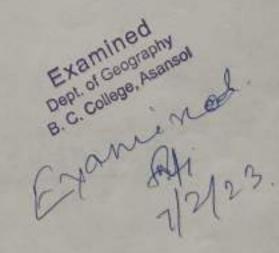
According to own given weather map 14% area are experienced calm condition. The lighter valouity of 25 knot has been recorded at Madhyapradesh and light to gentle breeze of to knot to 20 knot has been recorded at Rajasthan, Grustrat, Some Part of the Madhyapradesh and Maharashtra. On the other hand the lightest breeze of less than 5 knot to 5 knot has been recorded at Ladakh, Jammuard kashmir, Himachal Bradesh, Punsab and Places of Hariyana and in mason part of west Bengal, chattishgad, odissa and also in Maharastra, kornataka, Goa, Tamilnadu and kerala.

# WIND VELOCITY DIAGRAM



scale Wind velocity (knot) -

1 cm to 3% of wind velocity

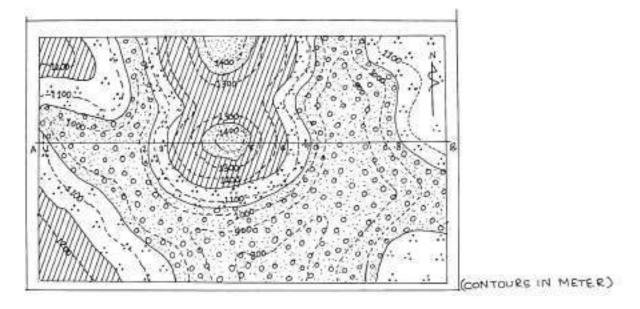


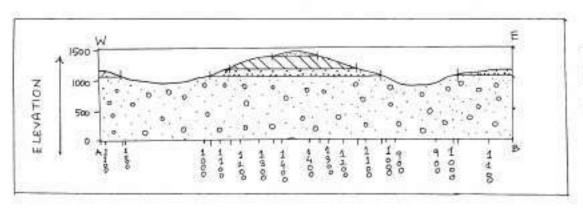
No.0, 0,

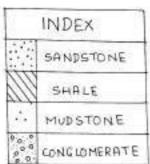
Examined
Dept. of Geography
B. C. College, Acadesed

## GEOLOGICA L MAP

## GEOLOGICAL SECTION ALONG THE LINE AB

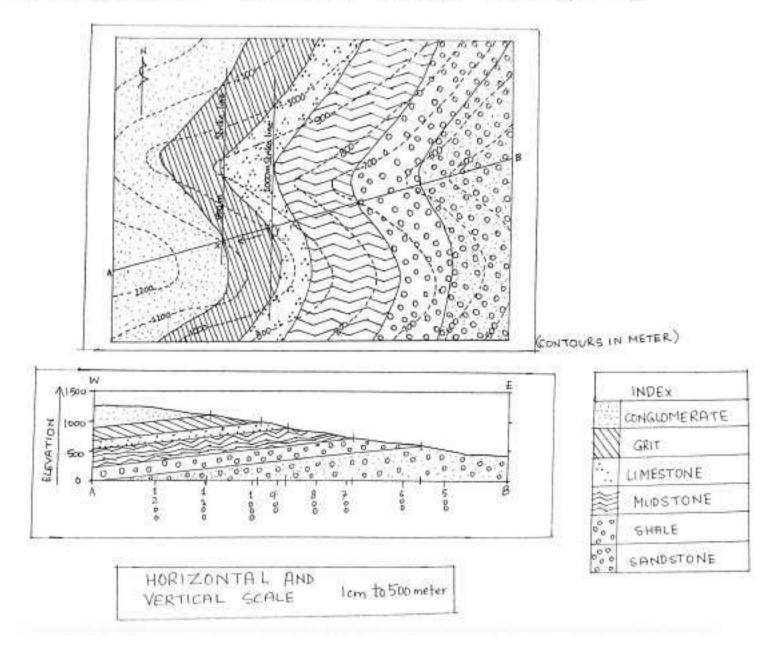






HORIZONTAL AND VERTICAL SCALE 1 cm to 500 meter

### GEOLOGICAL SECTION ALONG THE LINE AB

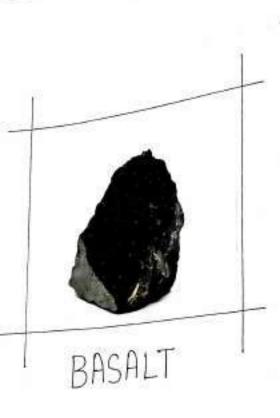


IDENTIFICATION ROCKS AND MINERALS



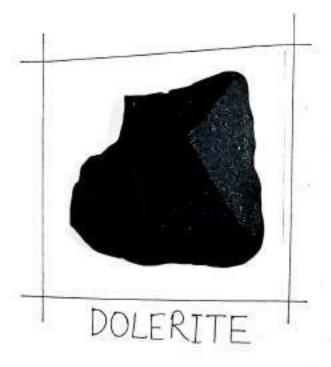
#### GRANITE

- I lyranite is the most common intrusive nock in Earth's Continenta Crust Mineral - Quartz (201-407), (501-201) K-Fledopan (extractors and for
- 2 Melling Temperature 1215 1260 c
- a It has poon primary permeability but alvorg recordary powership
- 4. Chemical composition of the cone consesponds to objectase and anderire (An 30 - 38), entereas more acidic objectare and andowns account in the margin
- It is coarse to medium grained
- 6. It is familian as a mottled pink, white, gray, and black evenen stone
- 7 Granite crystallices from silies such magnes that are miles
- 2 Granite has phaneus tie (medium to coarse grained), helecrystall pan-hypidiomorphically grained, porphyric in places texture



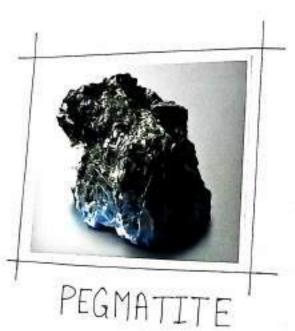
## BASALT

- 1. Basast, extrusive igneous (volcanic) rock that in Low in silica content, dark in colour, and comparatively rich in inon and magnesium.
- a. Some basalt are quite glarry (tachylytes), and many are very fine-
- 3. Basalt rock colour-dark gray to black.
- 4. Basalt is largely composed of minerals with little resistance to weathering.
- 5. Basalts are classified on a chemical and petrographic basis into 2 main groups:
- The tholesitic basalts
- -> The alkali basalts
- 5. The nock handress of basalt is 6 as per the Mohr scale and can be observed through a combination of its compressive strength. Generally, 100-800 Mpa or Megapascal is the compressive strength
- \* Minerals Plagioclase fledspan, biotite, clinine, pyronere hourblende



#### DOLERITE

- · Solvile, fire to medium grained, dark gray to black intrusive igneous nock It is extremely hard and tough and is commonly quarried for crushed stone, under the mane of trap.
- 2. It usually occurs as dykes, plug, or sills.
- 3. Daleville handress 293-3-05
- 4. Colour dark gray to black
- 5. Dolorite fournation Dolorite cools under hasaltic valsances, like those at mid-acean redges.
- 6. Mineral Plagiaclase, pyronene, pornblende, quartz.



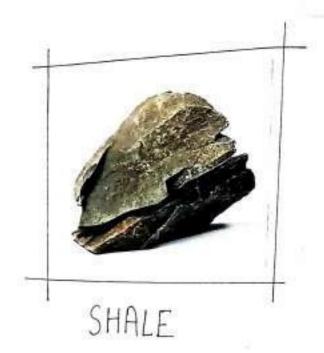
#### PEGMATITE CHARACTERISTICS 1. A pegmatile is a holocrystalline intrusine igneous rock showing a very coares texture, with large interlocking crystals usually greater in sixe than I com (0.4 in) and sometimes greater than I meter (3 ft) 2. The 3 major minerals found in Pegmatile are-Quartz, depidelite and Cleanslandite. 3. Pegmatite is a common plutonie rock, of variable texture and coarserers, that is compared of intermlacking crystals of widely different ALZES . 4. Geophysics: Urlike other lease metal commodities, Lithium - Caesium -Tartalum Pegmatites often have very weak magnetic or Conductivity properties and therefore, cannot be distinguished from adjacent S-type Granites or sediments, unless there is a stark contrast in these physical properties 5 Pegmatite in which main ingredients are Biotite mica (black), Microcline (Pink), Oligoclase (white), Quartz (gray). The nock has a monotogranatic composition



LIMESTONE

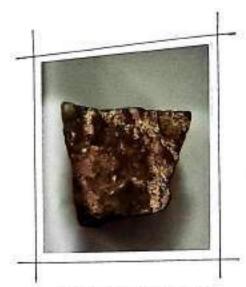
#### LIMESTONE

- 1 Some varieties of limestone have an extremely fine greain
- 3. dimentione is usually gray, but it may also be white, yellow or brown.
- 3. It is a soft nock and it is easily scratched.
- 4. It will efferwere readily is any common acid.
- 5. Chemical Composition Calcute
- 6 Handress generally hand
- 7. Teature Clastic or Non-Clastic
- 8- Igrain size Variable, can consist of clasts of all sizes.
- 9. Linestone is an extremely strong and long-lasting rock.



#### SHALE

- 1. Shale is a fire-grained, clostic medimentary nack formed from mud that is a mix of flakes of clay minerals and liny fragments (siet-sized particles) of other minerals, especially quartz-and calcute
- 2. Composition Clay mireral, Quarte
- 3. Colour lyray to Black
- 4. Missellaneous Thin platy leds.
- 5 Texture Clastic ; Very fire grained (<0 004 mm)
- 6. The defining characteristic of shale is its ability to liveak into layers
- 7. Shale usually contains other clay-size mireral particles such as Quartz, Chert and Fledopar.
- 8 Chemical composition 58%. clay minerals, 28%. quantz, 6% fledspan 5% carbonate minerals, 2% tron oxides



SANDSTONE

## SANDSTONE

CHARACTERISTICS

1. A sedimentary rack consisting of sheets of sand, mineral particles of sheets

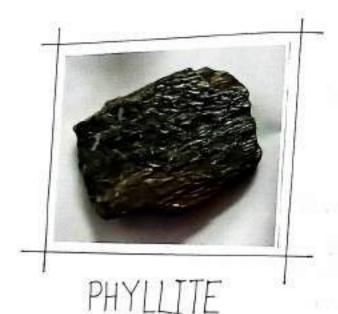
1. Sand, mineral particles, and linding matrix deposited one also in

1. Sand, mineral particles, and linding matrix deposited one also in

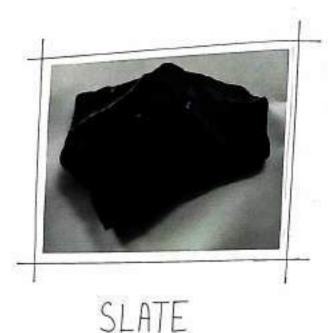
1. Sand, mineral particles, and desert formations. Hineral: Frederick, mineral

1. Sand of the sand desert formations.

- 2. Your paraus and mater will penetrate it easily.
- 3. Brown, red, purple, and pinh sandstone and commonly called brownstone.
- 4. Texture Clastic (only noticeable with a microscope)
- 5. Grain size 0.06 2 mm. Clasts visible to the naked eye, often identifiable.
- 6. Colour Variable through gray, yellow , red to white reflecting the variation in mineral content and coment.
- Flandstone, a sedimentary rock, is found when grains of sand on compacted and comented together over thousands or millions of years.



- Hetamouphic Rock
- 2. Texture Foliated; Fire grained
- 3. Composition Muscouite, Biotite, Quantz, Plagioclare
- 5. Physlite is a durable and soft rock
- It is realed between 1-2 on the Hoho Handress Scale and has
- 7. Phyllite has a resistance to heat, pressure, and water
- is larger than that of slate but smaller than



#### SLATE

#### CHARACTERISTICS

1 Type - Metamouphie Rock

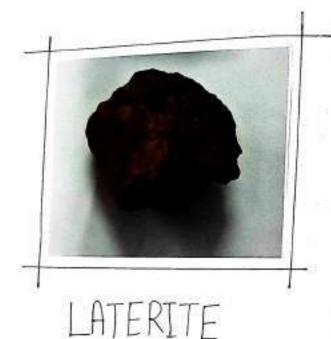
- 2. Composition Chlowle, Plagioclass, Quarta (Minuse)
- 3. Index Hinerals
- -> Colour Bluish gray
- 4. Histollaneous Foliation surface is dull and planar , slaty deauage.
- 5 Texture Folisted; Very fire grained.
- 6. Slate is a fine grained, foliated homogeneous metamorphic work derived from an original shale type sedimentary rock composed of clay or volcarie asts through low-grade vagional metamorphism
- 7. State is considered to the in between 2.5-4 on this scale in forms of handness, which means that it is, on average, almost hard as marble and limestone, but not as hard as granite by natural quartz.



CONGLOMERATE

#### CONGLOMERATE

- 1. Conglomerate is sedementary rock that looks like concrete
- 2. Colour Ton to Braun.
- 3 Texture Clartie; Coares grained (2-64 mm).
- 4. It is usually found in most thick, counterly stratified layers
- 5. Conglomerate has a warriable handness. and it often looks like concrete
- c. The peoples of sand can be composed of many different minerals.
- 4. Conglomerate is a coarse-grained rock that is after formed in riverbeds
- 8. It consists of large nounded pephles (class) terrented by a matrix made of calcité, inon oxide, or silica (Mineral)
- 9. Conglomerate is composed & particles & grand, that is to say of particles of greater than 2mm in diameter, consisting, with increasing size, of granules, pepples, capples, and liquiders



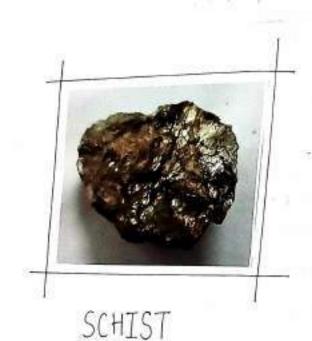
#### LATERITE

- datenite is both a soil and a rock type sich in bron and aluminium and is commonly considered to have formed in hot and ever tropical areas Mineral - Kachrite, grethite, hematite, grabbute
- 2. Nearly all laterites are of runty-red coloration, lucaure of high when oracle content.
- 3. There sails are acidic in nature and course and crumbly in texture
- 4. The proportion of line and silica is reduced when leaching takes place
- 5. Laterite soils are leached soils because atternating dry and west speck cause the soluble silica to be namoused.
- 8. Texture It is frequently picolitic (pealite). Exposed surfaces are blackish - brown to reddish and commonly have a shaggy or secretarious laualike appearance: (omnonly lighter in colour (red)
  yellow, and busin where freehly braken, it is generally soft when breakly quarried but hardens on exposure.

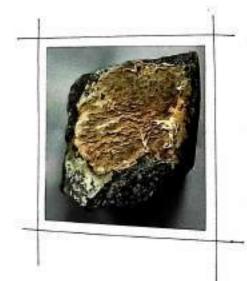


### MARBLE

- White, pink
- 2. Derived Linestone, dolomite
- 5 Grain size medium grained, can be seen interlocking valeite organists
- 4 Hardress hand, although component mineral is soft (calcute is 3 on Hoh's Acals of handrers).
- 5. Structure Massire
- C. Group Hetamarphia Rocks
- 7. Texture Non feliated, Hedium to coarse grained :
- 8. Marble is often known as soft stone
- 9. Marble is a rock resulting from metamorphism of sedimentary carbonate rocks, most commonly limestone are determite (rock).
- 10 Hireral Micas, Quartz, iran oxides, graphite, pyrite, clay minerals.



## SCHIST CHARACTERISTICS Type - Hetamorphic Rock 2. Testure - Foliated; Medium - to coarse - grained 3. Composition. Museouite, Bietile, Quarty, Fledspare 4. Index Minerals 5 Setient is a crystalline meterrouphic neck, mostly composed of more than 50% tabular and elongated minerals with grain size course enough to be visible to the unaided eye 1. The string surfaces that these schiets often show one due to metamorphim.



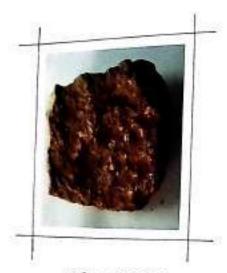
#### QUARTZITE

#### CHARACTERISTICS

- 1. Quartitle, bardeline that has been consented into quarte neck
- 5. Quanteste in free from pouls and have a smooth fracture
- 3 When struck they break through not around the sand grains producing a smooth surface instead of a rough and granular one
- 4 Quanteile is a compact, hard, renfoliated, medium to coarsely crystalline, and also almost mono mineral anctamorphic rocks with granoblastic texture.
- " Peure Juantaile is weally white to gray.
- 6 Though quotizite often occur in various shades of pink and red due to varying amounts of humatite. Other colors, such as yellow, green, blue and orange, are due to other minimals.
- 7. Qualtité is a metamoriphie rock that results of a compaction and recryptallization of quart a sandotone, compared mainly of quart a (until

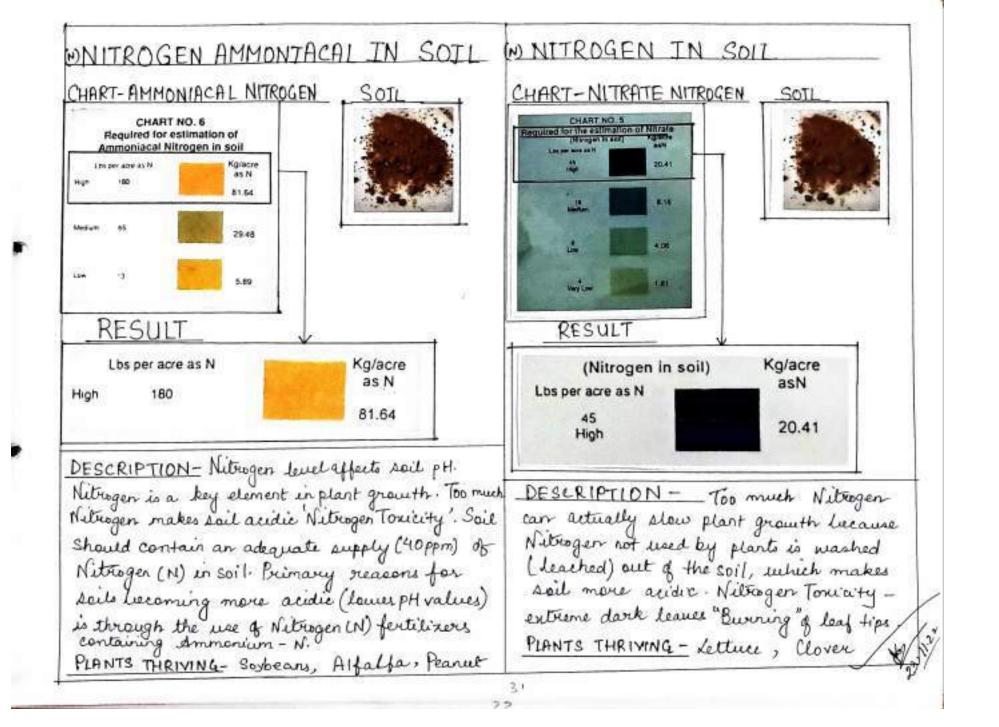
99%) and sometime presents little crystals of mica

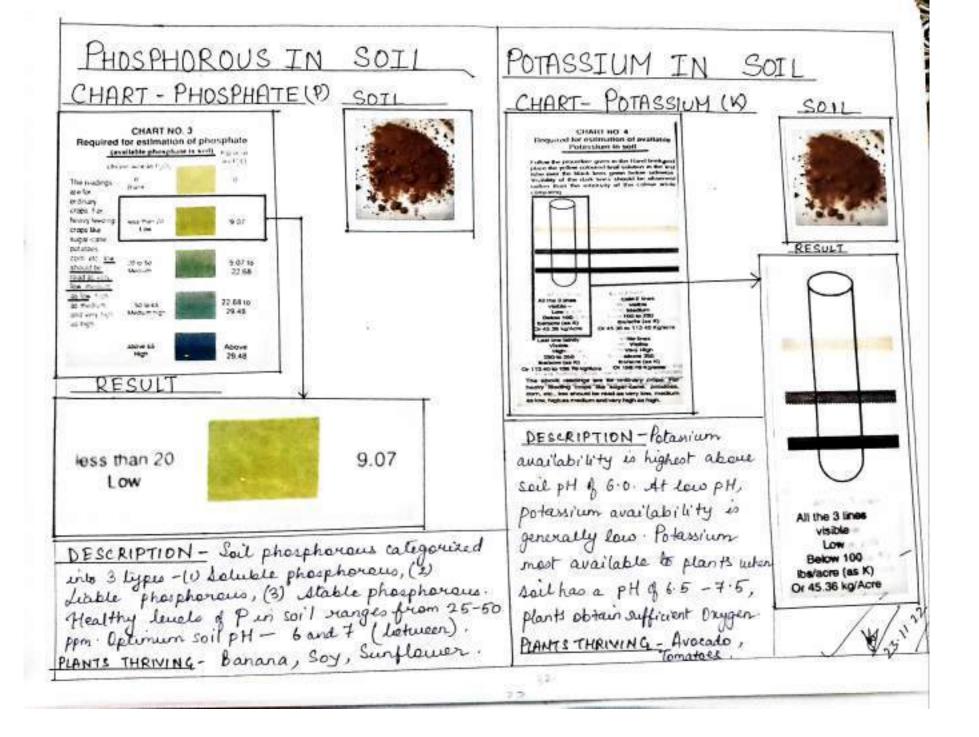
8 Minural - Milicon dioxida (SiO2).

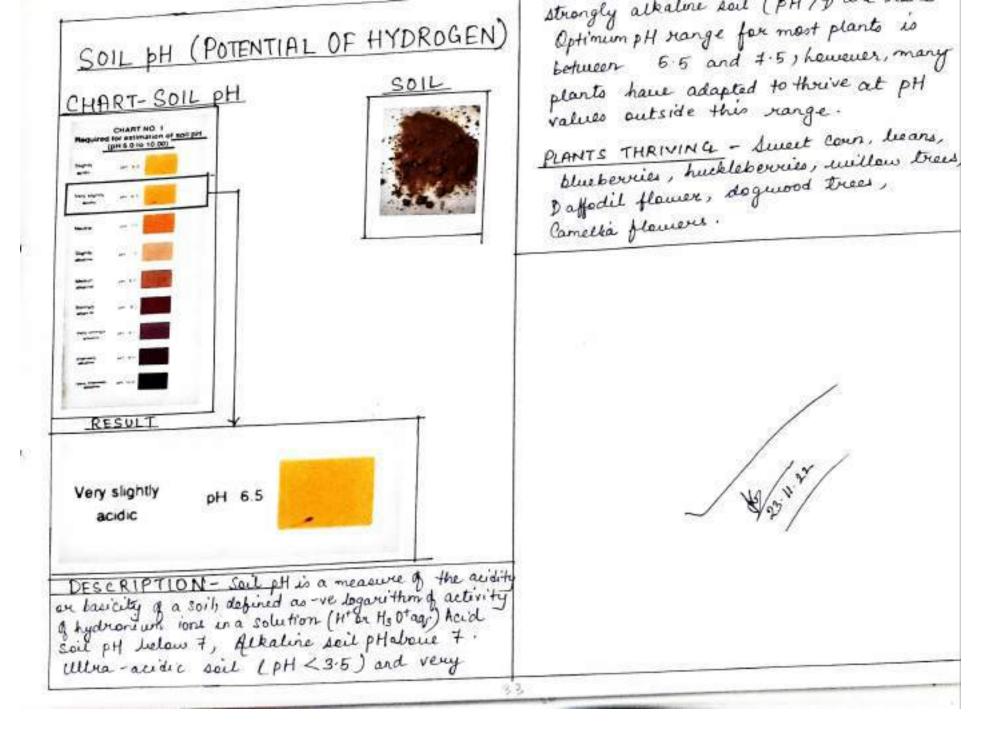


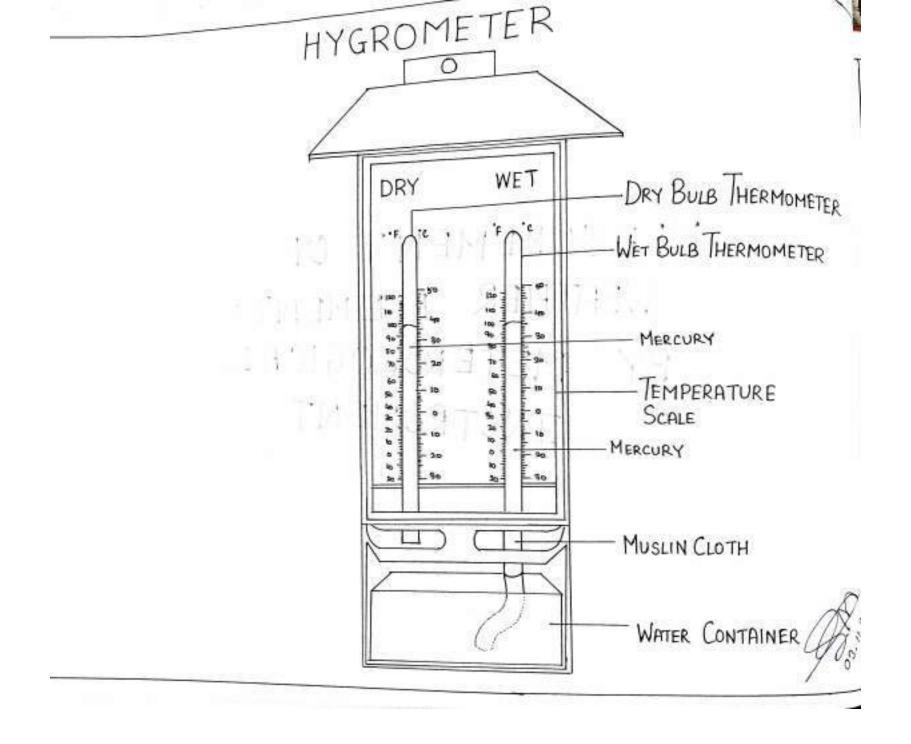
### BAUXITE

- I Colour White , gray , sometimes Mained yellow , orange , red , or pink on brown by inon on included inon mirerals. Hinerals-silica, titania, aluminosillicate
- Soft, low specific granity, colour often exhibits 2 Diagnostic Properties prisolitic habit
- 3. Chemical Comparition Variable but always with in atuminium orides and aluminium bearing are (bounite) and aluminium hydroxides.
- 4. Barrille is a Sedimentary Rock
- 5. Bouxile pre is not a mineral with a homogeneous chemical composition and original structure, but a heterogeneous mixture of these minerals
- 6. Bauxite consité of a mosteire 8 4 différent minerals:
- diagonite (AL203-H20)
- bothmile [ALD (OH)]
- gibbile (hydraxgillile) ALRO3.3H2O
- Carundum (AL203)









## DETERMINATION OF RELATIVE HUMIDITY BY HYGROMETER

PLACE - DEPARTHENT - GEOGRAPHY, BIDHANCHANDRA COLLEGE

DATE - 24-09-2022

INSTRUMENT NUMBER-

TIME - 12:45 p.m.

HUMBER OF READING	THERMOMETER READING OF	MEAN DRY BULB THERMOHETER READING OF	WET BULB THERMOMETER READING °F	MEAN WET BULB THERMOMETER READING OF		RELATIVE HUMIDITY (%)
1st	84°F	264°F	82°F	249°F	5	§ο7.
2nd	88°F	264°F	83°F	249°F	5	81%
3nd	89°F	264 F	84°F	249 F	5	21%

SIV 2 LINVILIOLI LILLO 0 BULG'B' U-TUBE MAX .F MIN F. SCALE IN FAHRENHEIT SCALE IN CELSIUS MARKER ( MAXIMUM TEMPERATURE) MINIMUM TEMPERATURE MARKER ( HINIMUM TEMPERATURE) MAXIMUM TEMPERATURE 120 MERCURY LEVEL

Scanned with ACE Scanner

# TABLE RECORD OF MAXIMUM TEMPERATURE AND . MINIMUM TEMPERATURE DONE BY SIX'S MAXIMUM AND MINIMUM THERMOMETER.

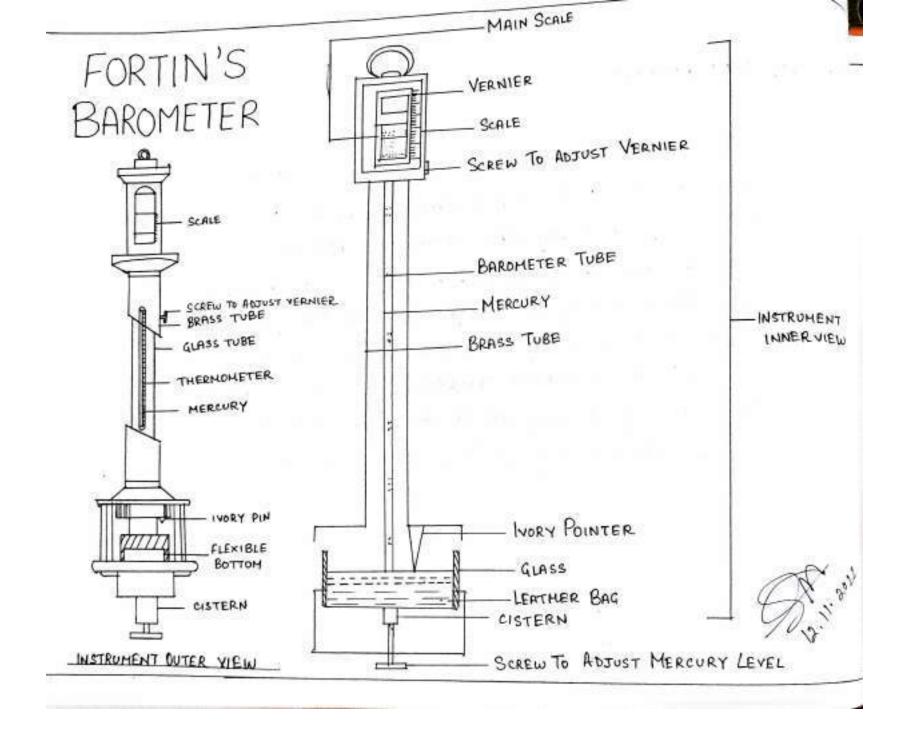
PLACE - DEPARTMENT - GEOGRAPHY, BIDHANCHANDRA COLLEGE

DATE- 23-9-2012

INSTRUMENT NUMBER -

TIME - 01: 03 p.m.

NUMBER OF	MAXIHUM TEMPERATURE		MINIMUM TEMPERATURE		CURRENT TEMPERATURE		RANGE OF TEMPERATURE	
Kenduri	·e	• 6	* c	۰F	°c	• E	°c	°¢
lst	31°C	87.8°F	30°€	86°F	29°c	84.2°F	1'c	1.8°F
2nd	32°c	90 <b>°</b> F	31.0	87.8°F	29°c	84.2°F	l°c	2.2°F
3rd	33°c	91.4°F	32°c	90°F	2ª°c	84.2°F	ı'e	1.4°F
MEAN TEMPERATURE	32'0	89.7°F	31°C	87.9°F	29°C	84 2°F	1.5	1-g °F



## DETERMINATION OF WIND PRESSURE BY BAROMETER (FORTIN)

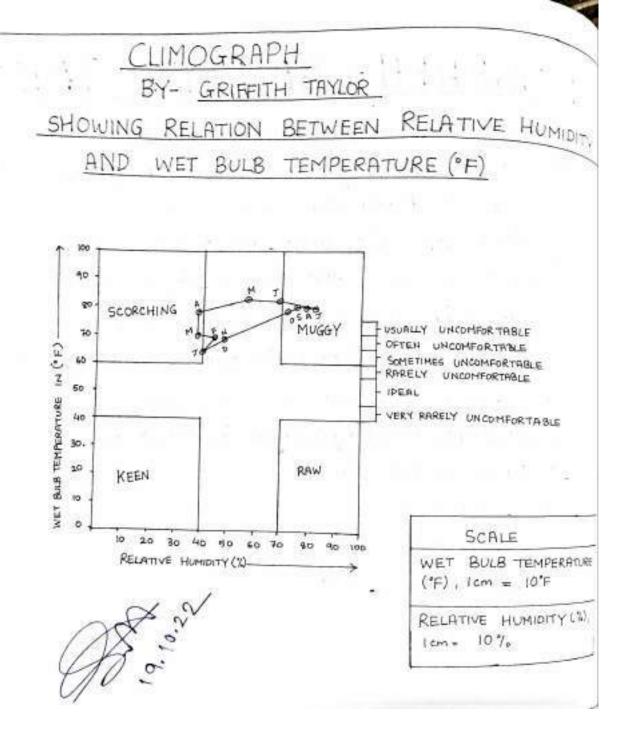
PLACE - DEPARTHENT-GEOGRAPHY, BIDHAN CHANDRA COLLEGE

DATE - 14-09-2022

INSTRUMENT NUMBER

TIME - 11:45 a.m.

NUMBER OF READING	MAIN SCALE READING	VERNIER CONSTANT (cm)	NO OF VERNIER SCALE DIVISION	VERNIER SCALE READING CCM)	FINAL READINGL CLM)	Co. HEAN FINAL READING Com)		WIND PRESSURE (Hb)	REMARK
lst	76.0	0.005	7	0.035	76. 035	76.040	76 cm =	76 cm	25°C
2nd	76.0	0.005	8	0.040	- 040 ·9E	76.040	1013.25	a 1013.25	25°C
3rd	76.0	0.005	9	0.045	76.045	76.040	mb	mb	25°C

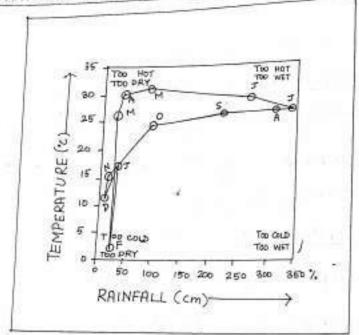


## CLIMOGRAPH

#### TABLE REPRESENTATION OF WET BULB TEMPERATURE ("F) AND RELATIVE HUMIDITY (1)

MONTH	WET BULB TEMPERATURE (°F)	Seale-lon = 10°F	RELATIVE HUMIDITY PERCENTAGE (1.)	SCALE-ICM
JANUARY	64.8	6.4	. 40	4.0
FEBRUARY	68.5	6.8	44	4.4
MARCH	70.5	4.0	38	3.8
APRIL	78.1	7.8	38	3.8
MAY	82.9	8.2	57	5.1
JUNE	82.3	8.2	69	6.9
JULY	80.8	8.0	81	8.1
AUGUST	80.7	8.0	79	7.9
SEPTEMBER	80.0	8.0	75	7.5
OCTOBER	78.0	7.8	72	7.2
NOVEMBER	68.9	6.8	48	4.8
DECEMBER	68:4	6.8	48	4.8

## HYT. HERGRAPH - GRIFFITH TAYLOR REPRESENTATION OF TEMPERATURE CONDITION OF PURULIA DISTRICT, (AVERAGE)

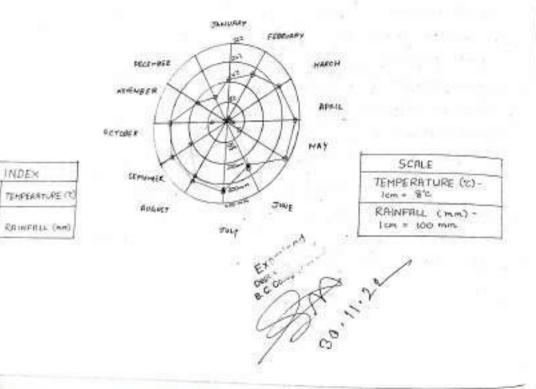


SCALE TEMPERATURE (c) 1cm = 5°C RAINFALL > 1cm = 50 cm

### HYTHERGRAPH - GRIFFITH TAYLOR

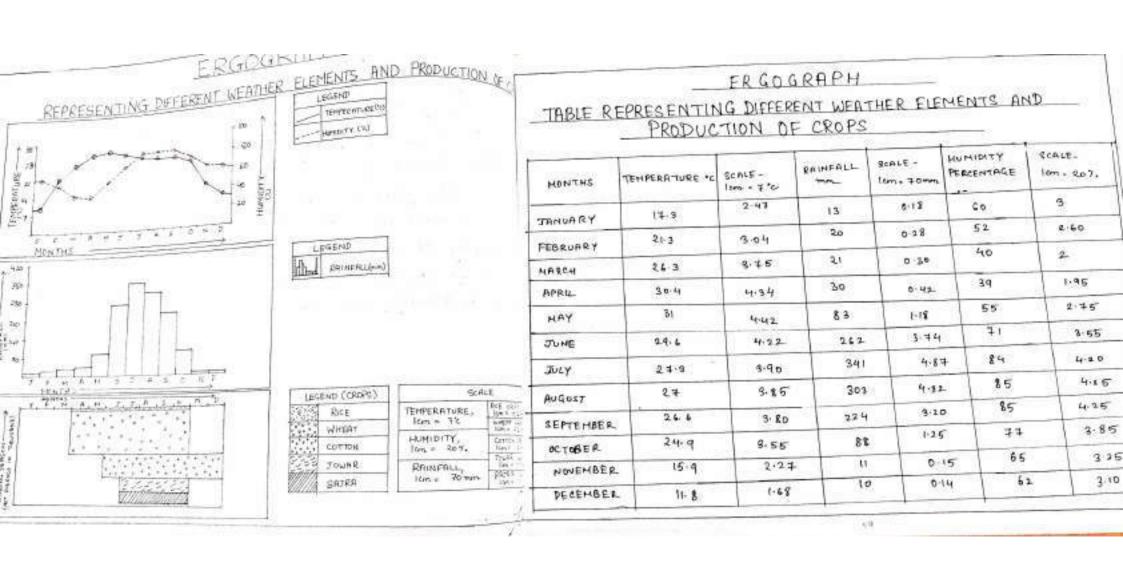
НТИОМ	TEMPERATURE (°C)	Scale- 1 cm = 5 °C	RAINFALL (MM)	SCALE-1em =50 mm
JANUARY	17.3	3-46	13	0.52
FEBRUARY	21.3	0.38	20	0.40
March	26.2	5.24	21	0.42
APRIL	30.4	6.08	30	0.60
MAY	31	6.20	8.3	1.66
JUNE	29.6	5.92	262	5.24
JULY	27.3	5.46	341	6.82
AUGUST	27	5.40	903	6.06
SEPTEMBER	26.6	5.32	224	4.43
OCTOBER	24.9	4.98	88	1.76
NOVEHBER	15.9	3.18	11 .	0.22
DECEMBER	11.8	2.36	lo	0.20

# STAR DIAGRAM RAINFALL



## TABLE REPRESENTING TEMPERATURE AND RAINEAU

MONTHS	TEMPERATURE *c	SCALF- Icm- 2°C	RAINFALL	SCALE - Lem = 100 mm
JANUARY	17-3	2-14	15	0.13
FEBRUARY	21.3	2.64	2.0	0 20
HARCH	26-2	3.27	21	0.21
PPRIL	30.4	3.80	30	0 - 30
MAY	31	3.5.7	83	6.83
JUNE	20.4	2.57	262	2.62
JOTA	24.3	3-41	341	8-41
AUGUST	24	9.34	303	3.03
SEPTEMBER	26-6	5-32	224	2.24
OCTOBER 249		3-11	8.8	p. 8.8
HOVENBER	15.9	1.98	£1	0.11
DECEMBER	11-8	1.44	10	0.41



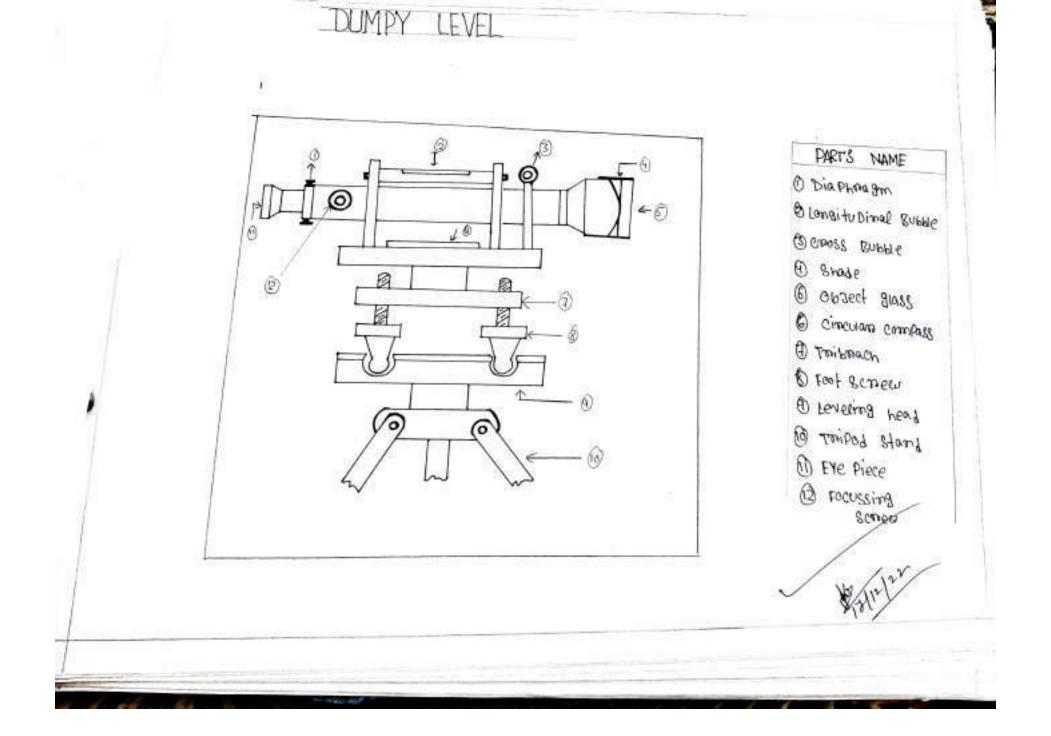
## ERGOGRAPH

## TABLE FOR PRODUCTION OF CROPS.

CROP	GROWING SEASON	NET ACERAGE IN THOUSAND	SCALE IN cm.
RICE	NAY- OCTOBER	100	0.2 tm
WHEAT	OCTOBER-APRIL	[[0]	2.2 cm
COTTON	JUNE - DECEMBER	600	1.2 cm
JOWAR	JULY-OCTOBER	350	0.7 cm
BAJRA	JULY-OCTOBER	300	0.6 cm

#### DUMPY LEVEL

Dumpy level is commonly used leveling instrument to locate the Point in Same horizontal Plane. It is also called as automatic level on builder's level. Elevations of different points and distance between the Points of Same Elevation can be determined by dumpy level.



Determination	of	Reduced	level	PA	Dumpy	level	
Time:						Place- Bidhom Chandra College Comple	

Date:							To	nsturment	1/9.3	
Station Dist	Distance	Stat	ff Reading	r\3	Rise	fan	RL	Remanu	Difference	
2 latisu		B. 8	Z.S	F.S	Kise	4000	20000		(Scale-rem:25/4)	ion
Α	0	1,420					111.2"	BMQE A	0	
В	G		1.465			0.045	110.96	THE STATE OF THE S	3	
C	12		1, 200			0,035	110.92		G	
D	18		1.490		0.01		110,93		٩	

1,535

0.045 130.85

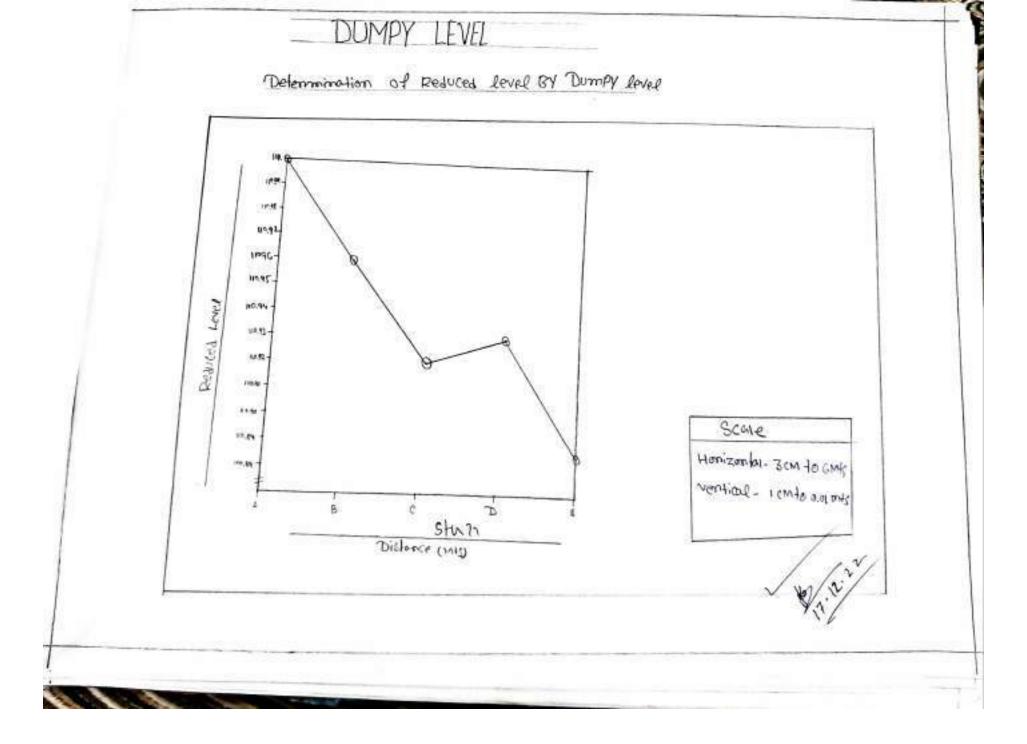
Awithmetic check

24

IB.S-IF.S = Last R.L - Firest R.L

11t -20tt = 383.1 - 054.1 (=

2rr.o = 2rr.o <=



#### FIEID BOOK

DETERMINATION OF REDUCED LEVEL BY DUMPY LEVEL

Time :

Date:

Place: Bidham chandron course compus

SURVEYER :

INSTRUMENT NO:

Station Dis	Distance	Staff	Readin	Rise	Falle	R.L	Druse	
	Distance	8.8	I.S	F.S	KIDE	Faux	Kir	REMARK
A	0	1.430					77.7	BM OF A 111
B	3		1.350		0.08		86.LLT	
C	G		0.750		0.6		377.68	
D	9		1.250			A5	81. EEE	
E	12		0.330		0.92		1.517	
F	15		1.200			0.87	771.23	
Gi	18		1.315			3.115	21.12	
н	21		1,030		0.285		P.EEE	
I	24		0.100		0.93		111,33	
ם	53			0,410		0.37	111.96	

IBS - IFS = Last R.L - First R.L

Line Semina(y.c)

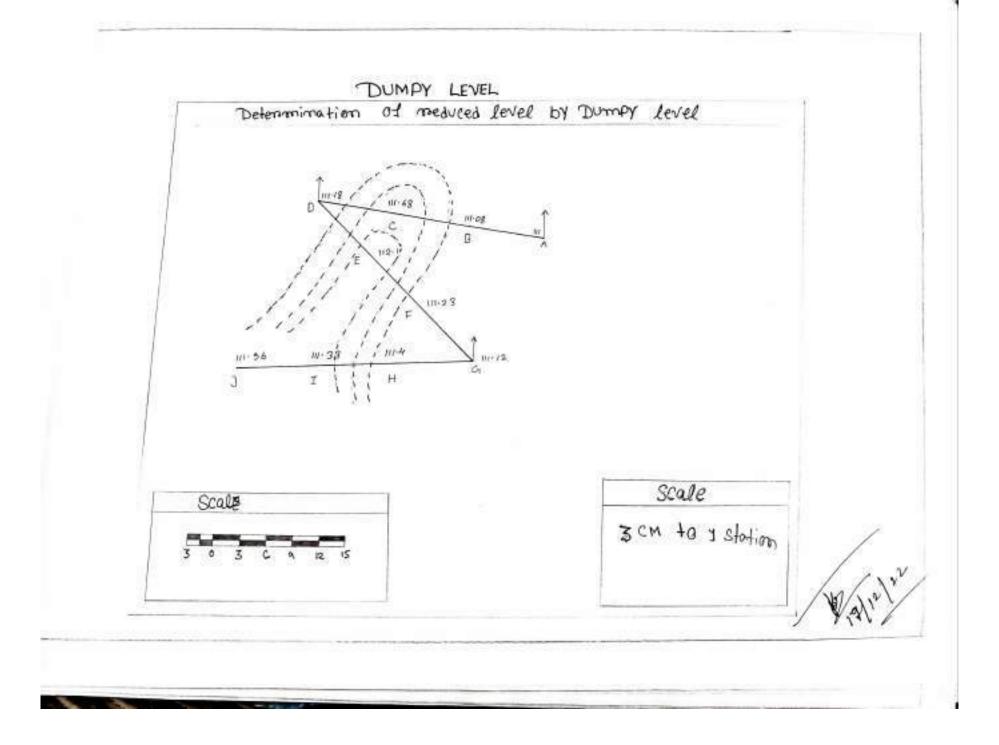
AD 81°30'

DG1 134'

GD 201°50'

=) 1.430 - 0.410 = 411.06 - 171

=> 0.96 = 0.96



# PRISMATIC COMPASS

A Prismatic compass is a movigation and surveying instrument which is extensively used to find out the bearing of the travensing and include angles between them, way points and direction

#### FIELD BOOK

Field work is done by Proismatic compass and step

date -

- GODVETER -

Time -

Instrument No.

Tolde-1

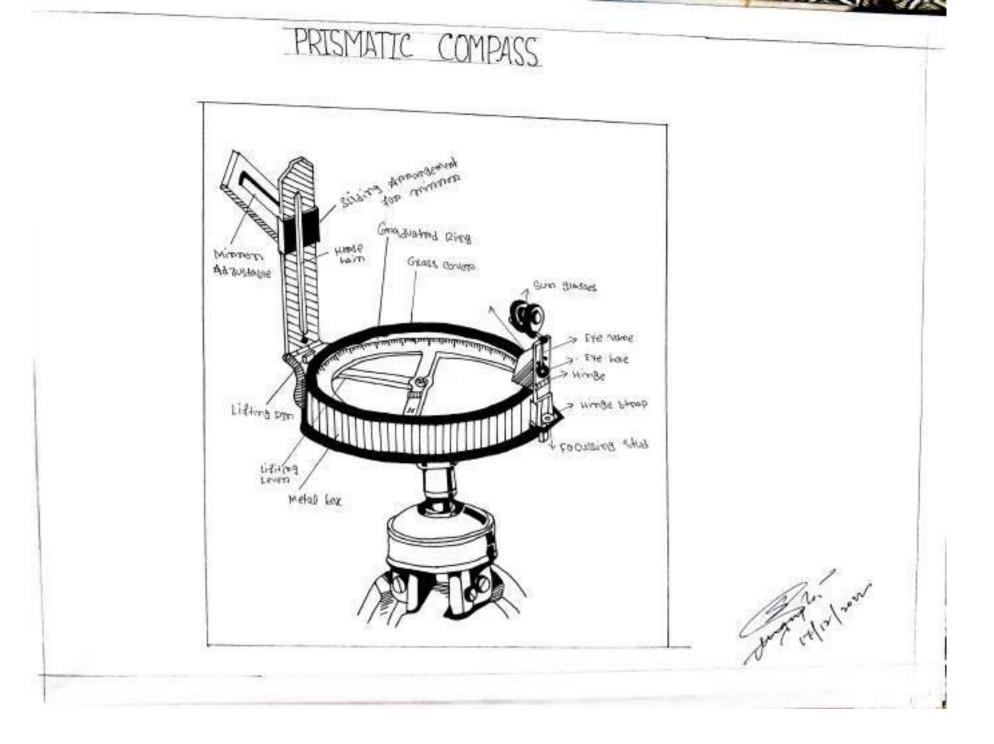
Place -

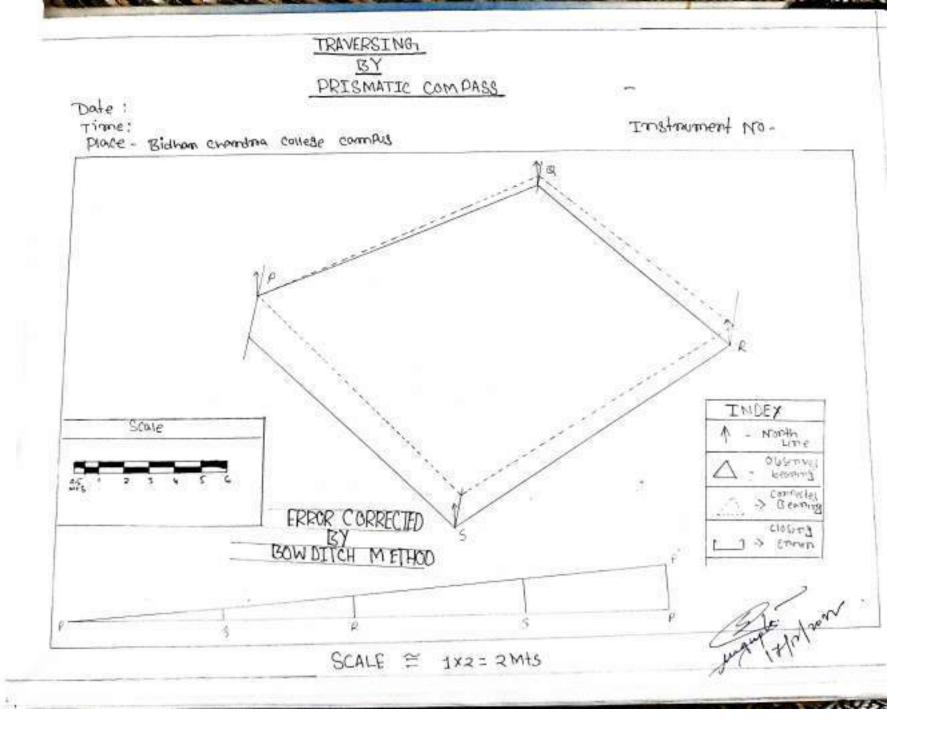
station line		Distance in MAS	Observe	Difference	
P	Pa	12	31°61'	250'15'	1390
Q	Q.S.	10	1310	313, 9,	11 2000
B	RS	1.2	237°45'	60'45'	133,
S	48	"	-248°	134'	181,

Table-2

Capculation of travensing

		Honne	Observed Bearing		Did beronse	0.00	Annen	Connected Geomina F.B   B.R		1	
P	Pa	Mrs	Kell ints	F.B	B.B	Dieter	Swan	Sinter	F.B	B.B	Rémannes
74.00		12	75	71 15	250°15'	179		+ 0°30°		280'45'	10
Q	95	10	20	131 01	313°0'	180*	20			100000000000000000000000000000000000000	10
R	23	13	1 1	0	100000	2000		3	1.25	313,9,	
SIGS.			13	2379451	60°45'	177°	-3.	-7,20,	239'1¢	\$9'15'	
8	SP	77	rr	315	134"	181°	7.		3146201		
			1				,	0.50	214.20.	134,201	





Scanned with ACE Scanner

# TRAVERSING

A travense is a connected lines whale lenths one directions one to be measured and the process of surviving to find such measurements is known as travensing. In general, craims one used to measure length and compass on theodolite one used to measure the direction of travence lines.

# TYPES OF TRAVERSING

Transming may be of two types. Normely

- (i) OPEN TRAVERSE: At time vense is said to be open fravence when the travense stants alone point and terminates at another point as shown in the digune.
- (ii) CLOSED TRAVERSE: A Trouvense is said to be closed trouvense when the trouvense former a closed circuit as shown in the figure.

#### METHODS OF TRAVERSING

The transming is preformed by four different methods and these methods are consider according to the surroup instrument used. The methods once as follows.

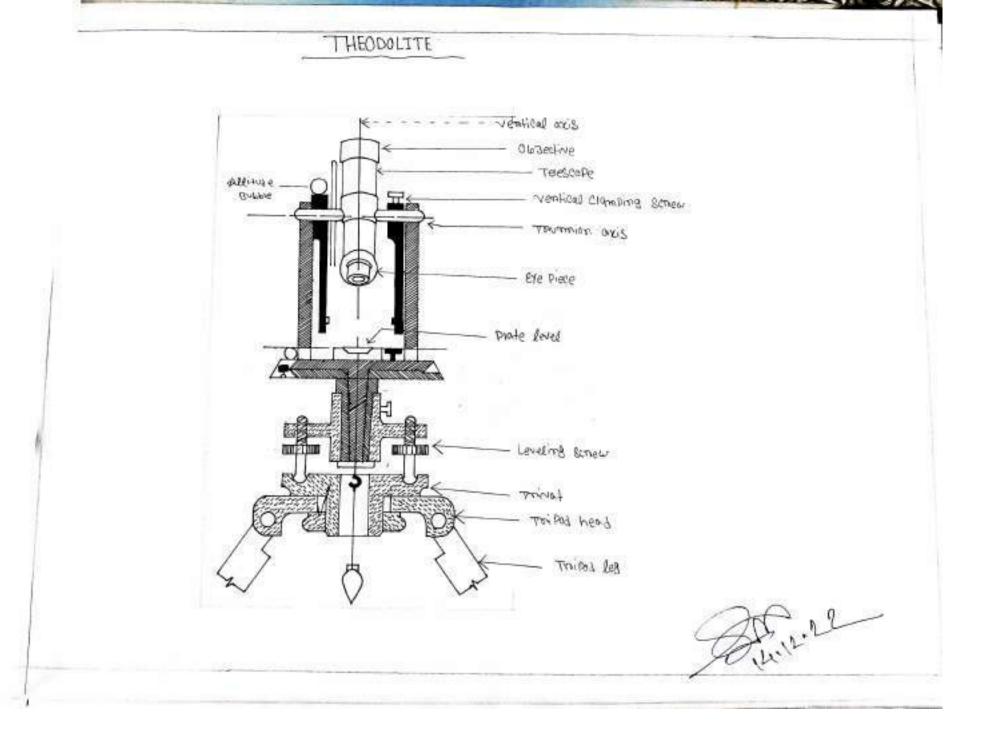
- (1) Chain movensing
- (3) Compass Traversing
- (3) Theodorite Traversing
- (4) Diane table movensing

# IMPORTANCE OF TRAVERSING

It appears geodetic traign gulation form sub-custome of all known observed spoints. Closed treavens is useful in marring the boundaries of wood on lakes. Constanction and civil engineens utize this practise for Procliminary Surveys of

# THEODOLITE

A theodolite is a precision optical instrument from measuring optical angles between designated visitive points in the honizontal and ventical planes. The traditional use has been from land surveying, but it is also used extensively for building and indivastructure construction, and some specialized appripations such as meter-nology and Rocket launching.



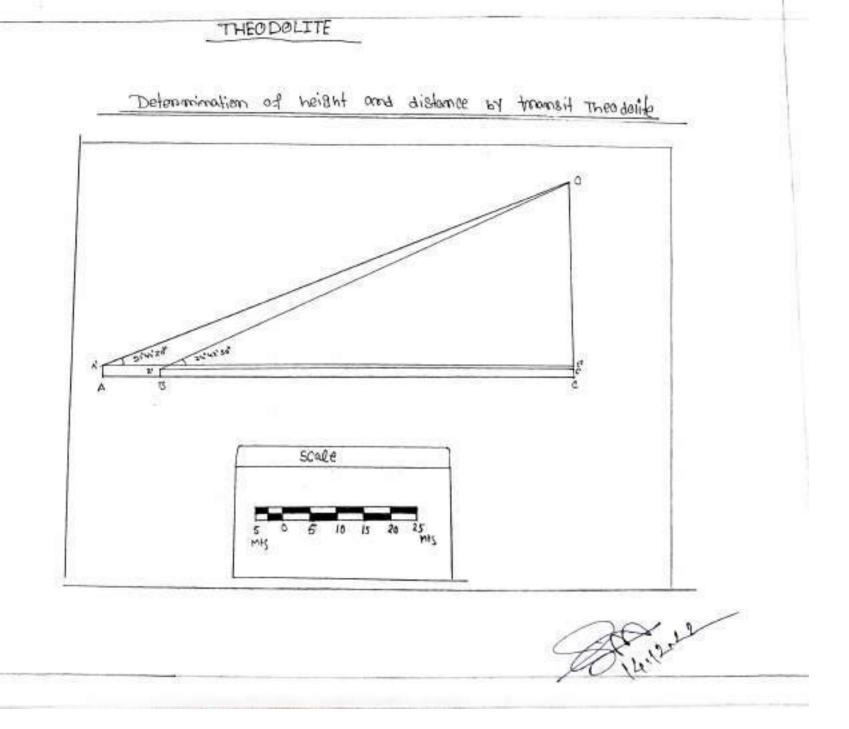
#### THEODOLITE DETERMINATION OF HEIGHT BY TRANSIT THEO DOLL TE venticul circle Ground Mean Anale Mean Instrument Face Reading angle 2146 ve 21 45 Left A Station 210 2125120" A ND neignt 501 44' = 1.5 mls 21045 4011 Ne 21,431 Right B station 2011 210401 3011 UD height = 1.4m+5 Ne 24 43 24041 Left 13 240 Alog 24 40' 3011 ND 421 Station Ne D40 451 24.431 Dislance RIBH 301 =11° WWR 300 VD 24 421 ROUGH SKETCH c2 A. 13

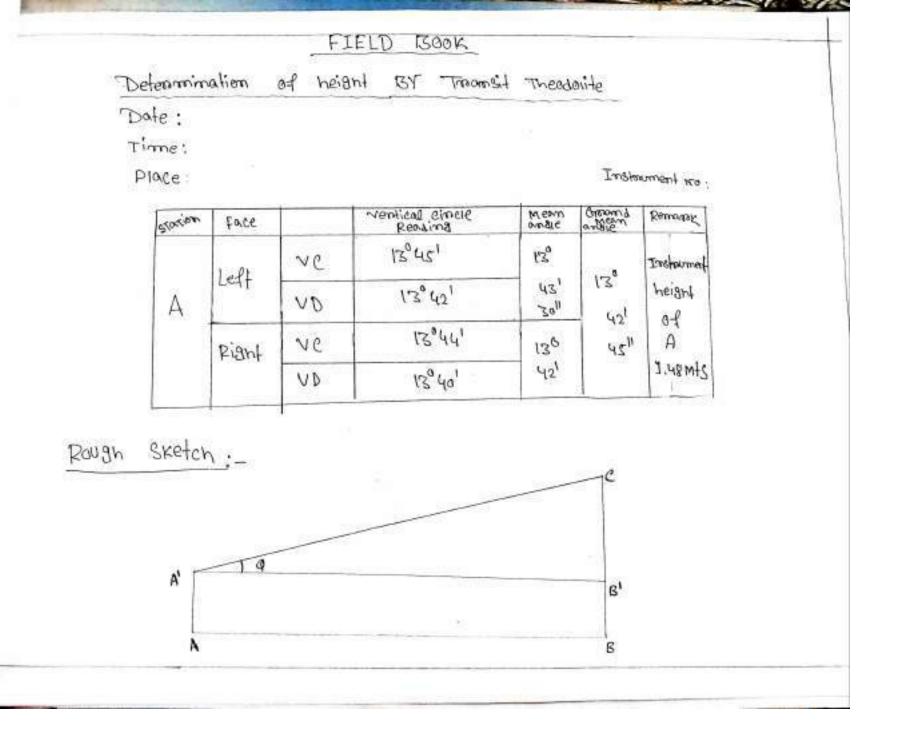
#### MOTATION. Proon A OA'C2 we can get $\frac{A^2c^2}{0c^2} = Cota$ $A^2c^2 = Rase$ AC = A'C2 = Base 2tm 22, rr = 8A on Base = cota x oc2 BC= B'c' = (Base-K) • Fasson consthers A OB'C', eve can def AA' = cc2 Bld = cot B [Bld = Base-K] 13 Bl = cc1 LOA'c2 = 0 000 Bose - K = Cot B x a Co - - - 6 LOB'C = B Subtractions of Equation No @ from () c'c2 = (ee2-ee1) = (1.5-1.4) mts Base - (Base-x) = (cot a x oc?) - (cot B x oc?) 5 H = 8+M K.O = on, Base - Base +x = cotq x oc2 - cot B x oc2 on, x = oc? (cot a - cot B) - cot B x hd on, oco (cota - cot 13) - cot B x M = x on, och = xt cot B -x hd on, ac2 = 11.55 + cot 24° 430" x 0.1 cot 204412011 - cot 2404213011 0 m, 00° = 11.77 25.00 = 35.00 are

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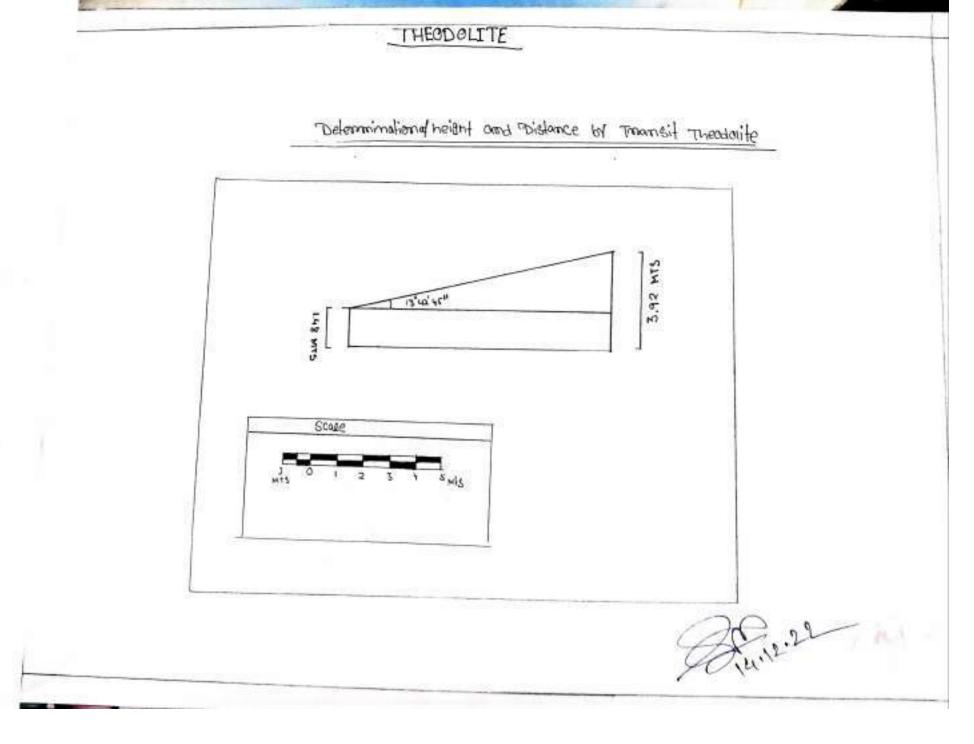
Taken sauce I cm to smis

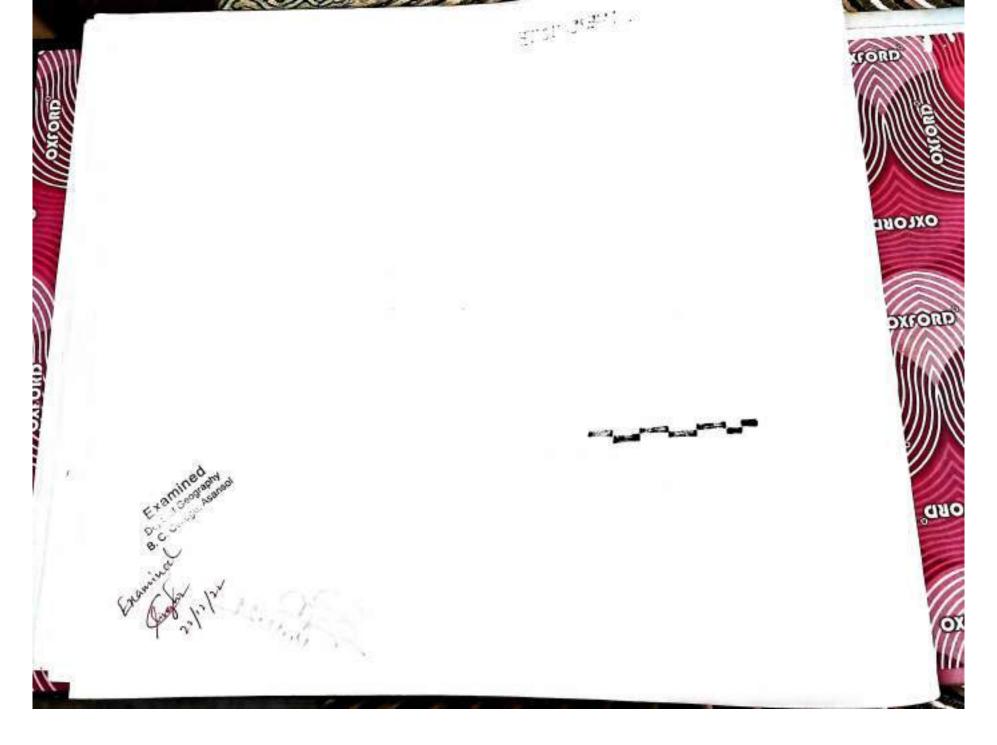
$$G_1G_5 = 0.05 \text{ cm}$$





```
· Gravia Method
     uppen stadia meading = 1.45 Mts
     Lower Stadia meading = 1.35 mils
    Horrizontal Method = ( Uppen stadia - Lower stadia ) x 100
                         = (1.45 -1.35) x100
                             0.1 × 100 = 10 MIS
 From A ABIC we can def
         \frac{B^{l}e}{A^{l}B^{l}} = Torno
  -on B'e = Tano XA'B'
  on B'e = Tam 13 42 45" x 10 mls
       BIC = 2.44 MS
    total height of BC = (B'C+BB')
                           = (2,44 + 1,48)
                             = 3.92 mts
Taken Scale, I on to I Meters
AB = 10cm B'c = 3.9 cm
YB = TOCK
BC = 3.9CM
```





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# BBA



BIDHAN CHANDRA COLLEGE

# PROJECT REPORT ON WORKING CAPITAL MANAGEMENT

OF

REPLISOFT TECHNOLOGIES PVT. LTD.

COMPLETED BY
ISHIKA SARKAR

ROLL:103200512800 NO:7022

REGISTRATION NO: KNU20103003232

6™ SEMESTER

BBA (H)

## **DECLARATION**

I Do Here By Declare That This Project Report On Replisoft Technologies Pvt. Ltd., Ghaziabad Is An Original Work Done By Me Under The Guidance Of Mr. Sanjoy Maity, Founder & Ceo. I Have Tried To Present This Report With Almost Clarity And An Authentic One As Well.

The Project Report Is A Joint Property Of Bidhan Chandra College, Asansol And Replisoft Technologies, Ghaziabad. The Project Work Has Been Undertaken As A Part Assignment Of My Full Time Bachelors Of Business Administration From Bidhan Chandra College, Asansol.

Ishika Sarkar Bba (2020-2023)

B. C. College (Asansol)

# **ACKNOWLEDGEMENT**

This Research Was Made Possible As Per The Requirement Of The Bba Course Under KNU University. Many Individuals Took Interest And Were Supportive Of My Efforts .In Fact Many Have Given Me Generously Their Time And It Is Not Possible To Mention All Of Them And Their Act Of Goodness. I Take The Opportunity To Place And Record My Deep Sense Of Gratitude To All Who Have Helped Me In Completion Of My Study.

My Sincere Thanks To Mr. Sanjoy Maity (Founder & Ceo), At Replisoft Technologies, Ghaziabad. Their Valuable Support And Help During My Visit For My Data Collection.

I Am Deeply Indebted To My Mentor And Guide Prof. Kajal Goswami, Prof. Santanu Mazumdar, Prof. Pratap Shankar Das, Prof. Faisal Hamid For Their Inspirstion And Guidance In Writing This Book.

I Would Be Failing In My Duties If I Don't Express My Sincere Gratitude To My Parents For Their Constant Support And Guidance. I Also Humbly Thank My Friends And All The Professors For Their Generous Participation In Data Collection Process.

# **PREFACE**

Project Study Has Enriched Me To Had The Opportunity Under The Replisoft Technologies Through A Period Of 22 Days From 25.01.2023 -15.02.2023 Help Me To Acquiring The Industrial Financial Strategy On The Basis Of Knowledge I Have Enclose A Small Part Of Financial Management That Is Working Capital Management And Its Financial Analysis With Help Of Ratio Analysis.

Cost Effectiveness Is The Buzz Word Today. So, Effectively Use Of Working Capital Is Important From The Point Of View Of Both Profitability And Liquidity.

For Any Ongoing Project Or Any Ongoing Organization Working Capital Management Is Highly Crucial For Its Meaningful Survival And Growth Of The Organization. The Management Of Current Assets, However, Differs In Three Important Ways:

First, In Managing Current Assets, Time Is A Very Important Factor.

Second, The Large Holding Of Current Assets, Especially Cash, Strengths The Firms Liquidity Position (And Reduces Riskness), But Also Reduce The Overall Profitability. Thus, A Risk – Return Tradeoff Is Involved In Holding Current Assets.

Third Levels Of Current Assets Depend Upon Expected Sales, But It Is Only Current Assets Which Can Be Adjusted With Sales Fluctuations In The Short Run. Thus, The Firm Has A Greater Degree Of Flexibility In Managing Current Assets.

An Effort Has Been Made In The Present Study Titled "Working Capital Management" With Respect To Replisoft Technologies, Ghaziabad To Understand The Different Financial Implication And To Make A Detailed And In Depth Study.

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#### THEORETICAL INTRODUCTION OF FINANCIAL MANAGEMENT

Let's Define Financial Management As The First Part Of The Introduction To Financial Management. For Any Business, It Is Important That The Finance It Procures Is Invested In A Manner That The Returns From The Investment Are Higher Than The Cost Of Finance. In A Nutshell, Financial Management –

- \*Endeavors To Reduce The Cost Of Finance
- \*Ensures Sufficient Availability Of Funds
- \*Deals With The Planning, <u>Organizing</u>, And <u>Controlling</u> Of Financial Activities Like The Procurement And Utilization Of Funds.



"Financial Management Is That Area Of Business Management Devoted To A Judicious Use Of Capital And A Careful Selection Of The Source Of Capital In Order To Enable A Spending Unit To Move In The Direction Of Reaching The Goals." – **J.F. Brandley** 

Financial Management Is The Activity Concerned With Planning, Raising, Controlling And Administering Of Funds Used In The Business." – **Guthman And Dougal** 

# THEORETICAL INTRODUCTION OF WORKING CAPITAL MANAGEMENT

Working Capital Or Circulating Capital Indicates Circular Flow Of Funds In The Day-To-Day Or Routine Activities Of Business. However, This Term Is Used In Two Ways; In The Gross And In The Net Concept. In The Broad Sense, The Term 'Working Capital Is Used To Denote The 'Total Current Assets'. The Following Are Some Definitions Of This Group.

"Working Capital Means Current Assets". -Mead, Baker, Malott. "The Sum Of The Current Assets Is Working Capital Of A Business". -J.S. Mill.

Working Capital Managements Takes Place At Two Levels:

- 1. Ratio Analysis Can Be Used To Monitor Overall Trends In Working Capital And To Identify Areas Requiring Management.
- 2. The Individual Components Of Working Capital Can Effectively Managed By Using Various Techniques And Strategies. When Considering These Techniques And Strategies, Company Needs To Recognize That Each Department Has A Unique Mix Of Working Capital Components. The Emphasis That Needs To Be Placed On Each Component Varies According To The Department.

Working Capital = Current Asset-Current Liabilities

Debtors Trade

Stock Creditors

Cash Bills Payable

Investment Short-Term

Loan & Advances Loans

**Taxation** 

Dividend

The Primary Objective Of Working Capital Management Is To Ensure That Sufficient Cash Is Available:

- 1.Meet Day To Day Cash Flow Needs
- 2. Pay Wages And Salaries
- 3. Pay Creditors To Ensure Continued Supplies Of Goods And Services
- 4. Ensure Ling-Term Survival Of The Business Entity

#### **CONCEPTS OF WORKING CAPITAL**

Working Capital Differs From Fixed Capital In Terms Of Time Required To Recover The Investment In A Given Asset. In Case Of Fixed Capital Or Long-Term Asset 9 Such As Land, Building And Equipment, A Firm Usually Needs Several Years Or More To Recover The Initial, Investment In Contrast, Working Capital Is Turned Over Or Circulated At A Relatively Repaid Rate. There Are To Concept Of Working Capital Gross And Net Working Capital. Generally, The Working Capital Has Its Significance In Two Perspectives. There Are Gross Working Capital And Net Working Capital Are Called "Balance Sheet Approach" Of Working Capital.

#### **GROSS WORKING CAPITAL**

The Terms 'Gross Working Capital' Refers To The Firm's Investment In Current Asset. According To This Concept Working Capital Refers To Firm's Investment In Current Asset. The Amount Of Current Liabilities Is Not Deducted From Total Of Current Asset.

#### **NET WORKING CAPITAL**

The Term 'Net Working Capital' Refers To The Excess Of Current Assets Over Current Liabilities. It Refers To The Difference Between Current Assets And Current Liabilities The Net Working Capital Is Qualitative Concept Which Indicates The Liquidity Position Of A Firm And The Extend To Which Working Capital Needs May Be Financed By Permanent Source Of Fund.

The 'Positive Net Working 'Represents The Excess Of Current Assents Over Current Liabilities.

The Net Working Capitals Turn To Be Negative When Current Liabilities Are Exceeding The Current Asset. The Negative 'Working Capital' Position Will Adversely Affect The Operation Of The Firm And Its Profitability. Working Capital Is Also To Of Permanent And Temporary Working Capital.

### **SCOPE OF THE STUDY**

The Project Is Vital To Me In Significant Way Because This Project Will Be A Learning Device For Finance Student. The Project Is Mainly Concentrated On Working Capital Management Of Replisoft Technologies Pvt. Ltd. The Study Aims To Find Out The Changes In Current Assets And Current Liabilities And Analysis Of The Liquidity, Profitability And Efficiency Of The Company During The Period 25thjan,2023 To 15thfeb,2023. Through This Project The Effectiveness Of Working Capital Management The Company Can Be Estimated By Using Various Statistical And Mathematical Tools.

The Study Is Both Descriptive And Analytical In Nature It Is An Attempt To Evaluate The Working Capital Management Of Company.

- •To Analyze The Working Capital Position.
- To Evaluate The Liquidity Position.
- To Analyze The Efficiency In Management Of Working Capital.
- To Give Suggestions For The Improvement Of Working Capital.
- To Analyze The Profitability Of Company.

## **PURPOSE OF THE STUDY**

I Am Student Of Bachelor Of Business Administration Under Knu University Belong To Bba Stream. As Per The Requirement Of Bba Course I Have Been Directed By Our Study Centre Authority To Receive The Industrial Training And Prepare A Project Report On Working Capital Management.

I Have Got An Opportunity To Do A Project On Working Capital Management At Replisoft Technologies Pvt. Ltd., Ghaziabad. It Is A Fastest Growing Lt Solutions Provider. It Is A Lt System Integration Company. They Work With Us To Ensure The Success Of All Of Your Business. It Is Providing Total System Integration Solution Compute And Storage Solution, Networking & Security Solution, Software Services, Data Centre Solutions And Video Surveillance Solution According To The Technical Specifications Of The Project And User Requirements.

Our Services Are As Following: -

\*Infrastructure Management Services(Ims)

\*Facility Management Services (Fms)

Replisoft Offers: -

- Project Management
- Server/Systems Management
- Network (Lan/Wan) Management
- Mail Management
- Asset Management
- Data Center Management
- Manpower Deployment
- Call Management

Here In This Study, I Have Focused To Bring Out The Significance Of Various Components Of Working Capital Viz. Inventories, Cash And Bank Balance, Debtors, Etc.

The Training Was Basically An In- House Training Which Intimated Me With Various Aspects Of The Project.

# **METHODOLOGY USED**

#### **JUSTIFICATION OF TOPIC**

In Today's Competitive World Maintaining Financial Strength On A Day-To-Day Basis Has Become A Challenge. Every Firm Wants To See Themselves Financially Sound. The Financial Attributes Like Liquidity, Solvency And Profitability Can Be Improved By Effective Implementation Of The Working Capital Management. Working Capital Supports The Day-To-Day Operations Of The Firm. As It Includes Items Like Cash, Inventory, Receivables, Payables Etc The Working Capital Shows The Activities Of The Companies. Empirical Studies Have Shown That Ineffective Management Of Working Capital As One Of The Major Causes Of Industrial Sickness. So, Efficient Management Of Working Capital Is One Of The Important Indicators Of Financial Soundness.

#### **STATEMENT OF PROBLEM**

This Project Report Tries To Evaluate How The Management Of Working Capital Is Carried Out In Replisoft Technologies Pvt. Ltd.

#### **OBJECTIVES OF THE STUDY:**

- 1) To Understand The Concept Of Working Capital Management
- 2) To Study The Components Of Working Capital Management.
- 3) To Analyse The Efficiency Of Working Capital Management In Replisoft Technologies Pvt. Ltd. Using Intra Firm Ratio Analysis.
- 4) To Find Out The Changes In Working Capital Of Replisoft Technologies Pvt. Ltd Using Comparative Financial Statement Analysis.
- 5)To Study And Analyses The Concept Of Working Capital
- 6)To Study The Operating Cycle.
- 7)To Study The Different Ratios Related To Working Capital

#### **AREA OF STUDY**

Area Of Study Is Financial Management.

#### **SAMPLE SIZE**

The Sample For The Study Has Been Selected A Company Named Replisoft Technologies Pvt. Ltd., Ghaziabad Which Is A Fastest Growing It Solutions Provider.

### **LIMITATIONS OF THE STUDY**

The Study Conducted And Done Is Analytical, Subject To The Following Limitations

- 1. The Study Is Mainly Carried Out Based On The Secondary Data Provided In The Financial Statements.
- 2. This Study Is Based On The Historical Data And Information Provided In The Annual Reports Therefore It May Not Be A Future Indicator.
- 3. There May Be Some Fractional Differences In The Calculated Ratios.

As The Study Was For Short Span Of 3 Weeks 1 Day And Due To Lack Of Time Other Areas Could Not Be Well Focused.

# Company Profile

# Replisoft Technologies Pvt. Ltd.



Address- G-6, B-11, Dlf Dilshad Ext.-li, Ghaziabad, Up-201005, India.

#### ABOUT COMPANY

Replisoft Technologies Is A Fastest Growing It Solutions Provider. We Can Work With You To Ensure The Success Of All Of Your Business. Replisoft Looks Deeper Into Your Business To Find Smarter It Solutions And Clearer Strategies For A Better Business Model. Our Engineers Have A Wide Range Of Knowledge In Regards To All Aspects Of Technology And Will Provide You With The Solutions You Need To Be Successful In Your Business. We Are Providing Total System Integration Solution Compute And Storage Solution, Networking & Security Solution, Software Services, Data Center Solutions And Video Surveillance Solution According To The Technical Specifications Of The Project And User Requirements. We Have Expertise In Backup, Data Protecting, Storage Technologies, Disaster Recovery, Networking And Hpc Solution Etc.

#### WHAT THEY DO?

Replisoft Is It System Integration Company. We Help Our Clients To Use Technology Platforms To Deliver Business Results For Their Enterprise. We Work As A Strategic Partner To Help Our Clients Enable It To Deliver Results For Their Growth And Success.

## **HISTORY OF THE COMPANY**

Replisoft Technologies Private Limited Is A Private Incorporated On 07 November 2017. It Is Classified As Non-Govt Company And Is Registered At Registrar Of Companies, Delhi. Its Authorized Share Capital Is Rs. 1,000,000 And Its Paid Up Capital Is Rs. 100,000. It Is Inolved In Other Computer Related Activities [For Example Maintenance Of Websites Of Other Firms/ Creation Of Multimedia Presentations For Other Firms Etc.]

Replisoft Technologies Private Limited's Annual General Meeting (Agm) Was Last Held On 30 November 2021 And As Per Records From Ministry Of Corporate Affairs (Mca), Its Balance Sheet Was Last Filed On 31 March 2021.

Directors Of Replisoft Technologies Private Limited Are Sovona Mondal, Sanjoy Maity And .

Replisoft Technologies Private Limited's Corporate Identification Number Is (Cin) U72900dl2017ptc325728 And Its Registration Number Is 325728. Its Email Address Is Prasenjit. Dbc@Gmail. Com And Its Registered Address Is Rz-697, F/F, Gali No-08, Raj Nagar-1, Palam Colony, New Delhi South West Delhi DI 110077 In .

Current Status Of Replisoft Technologies Private Limited Is - Active.

# **COMPANY BASIC DETAILS: -**

## **Director Details**

Din	Director Name	Designation	Appointment Date
07966033	Sovona Mondal	Director	07 November 2017
09336643	Sanjoy Maity	Director	04 September 2021

# **Company Details**

Cin	<u>U72900dl2017ptc325728</u>
Company Name	Replisoft Technologies Private Limited
Company Status	Active
Roc	Roc-Delhi
Registration Number	325728
Company Category	Company Limited By Shares
Company Sub Category	Non-Govt Company
Class Of Company	Private
Date Of Incorporation	07 November 2017
Age Of Company	5 Years, 4 Month, 25 Days

## **Share Capital & Number Of Employees**

Authorised Capital	₹1,000,000
Paid Up Capital	₹100,000

# **COMPANY CONTACT DETAILS: -**

Replisoft Technologies Pvt Ltd

G-6, B-11, Dlf Dilshad Extn.-li, Ghaziabad, Up-201005, India.

## **SOLUTIONS THEY PROVIDE...**

They Offer A Variety Of Solutions To The Clients



#### Data Center Build

Our Data Center Team Helps You To Identify Your Requirements, Data Center Capacities, For An Optimal Green, Energy Efficient And High-Resiliency Data Center. The Engineering Team Helps Clients To Build New Data Centers Or Optimize Existing Ones While Ensuring We Help Leverage Savings And Redundancy Through Consolidation And Relocation.



## High-End Computing (Hpc)

Performance Computing Most Generally Refers To The Practice Of Aggregating Computing Power In A Way That Delivers Much Higher Performance Than One Could Get Out Of A Typical Desktop Computer Or Workstation In Order To Solve Large Problems In Science, Engineering, Or Business.

Replisoft Hpc Experts Provide Services To Customers Enabling Them To Achieve Their Established Research Goal. Our Industry Leading Experts Come With A Variety Of Competencies Providing Services Like Workflow/Architecture Consulting, Hpc Compute And Storage Infrastructure Sizing, Performance Improvement Workflow, Application Performance Tuning Using Best Practices, Application Analysis, Application Porting To Accelerator Platform And Others.

#### Network Infrastructures



Networking Has Become The Most Prominent Area And Commanding The Focus For Turnkey Consultancy Including Design And Implementation Of Enterprise Networks And Management Solutions Besides Training And Product Support Until The End Of Life.

We Have Necessary Trained Engineering Resources To Support Leading Products Like Juniper, Brocade, Extreme Network, Hp Network & Cisco And Much More To Provide Solutions And Services Of The Very High Standard To The Clients.

#### Storage Solution



We Offer A Full Suite Of Professional Services For Our Customers In Storage, Backup, Archival And Storage Networks Technologies, Ranging From Solution Consulting And Project Planning To Installation, Training, Health Checks, Site Assessments, Troubleshooting, And Support. Replisoft Consultants Have Significant Depth Of Experience With All Major Backup Applications, Operating Systems, Database Applications, Tape Hardware, And Storage Technologies.

#### **Backup Solution**



Backup Is An Additional Copy Of Data That Can Be Used For Restore And Recovery Purpose. This Backup Copy Can Be Created By Simply Copying Data (There Can Be One Or More Copies). A Backup Is Put In Place To Avoid Permanent Data Loss Ensure The Integrity Of Stored Data I.E. Can Get To The Previous Version And Build Up The Data Correctly If Current Data Found To Be In Error. Replisoft Technologies Offers An Enterprise-Grade Fully Automated, Scalable And Flexible Backup Solution Complete With Real-Time Monitoring Built To Meet All Of Our Customer's Exact Requirements.

#### **Disaster Recovery**

Replisoft Technologies Provides Their Customers With Fully Tailored Onsite And Offsite Disaster Recovery Solutions, Guaranteeing That All Customer Systems Are Fully Recoverable Within The Required Recovery Time Objectives (Rto's).



## System Integration

The Main Challenges Facing Organizations Today On Their Path To Growth Are Complex Technologies And A Rapidly Evolving Business Environment. Consequently, There Is A Pronounced Need To Understand The Complexities Of The It Environment And Ensure That The Technology Is In Line With Your Business Objectives. The Need To Achieve Operational Excellence Irrespective Of The Organization Sizes While Maximizing Efficiency To Enable Technology-Enabled Business Transformation Is Paramount.

#### **COMPANY 'S SERVICES**

#### Infrastructure Management Services (Ims)

Our Service Delivery Models Are Dedicated To Ensuring The Highest Availability Of Your It Infrastructure And Applications. From Providing You With The Secure Infrastructure To Quality Processes, We Give Your Business A Competitive Edge In The Market.

To Ensure That There Are Services Available To Our Customers After Warranty, We Provide Both Amc And Fms Support To Them. Hence We Maintain Hardware From Multiple Vendors For Our Customers. Post Warranty Maintenance Support Services Cover The Following:

- It Products:Pc, Laptop & Notebooks
- Servers & Storage And Backup Device
- Switches, Routers, Firewall, Utm/lps Etc.
- Lan & Wan
- Printers & Plotters

#### Facility Management Services (Fms)

Our It Facilities Management Services Is A Comprehensive Set Of Services That Help Our Customers To Fully Utilize Their It Investments By Improving Availability, Reliability, And Performance. End - To End It Infra Support.

Our Services Imbibe Effective Combination Of Human Capital, Process, And Tools To Ensure That Your It Infrastructure Is Always Running Without Interruption. We Undertake A 24x7 Service Window Ensuring Complete Responsibility For Availability And Performance Of Your It Infrastructure As Per Sla.

#### Replisoft Offers:

- Project Management
- Server/Systems Management
- Network ( Lan/Wan) Management
- Mail Management
- Asset Management
- Data Center Management
- Manpower Deployment & Call Management

#### **Consultation Services**

Replisoft Technologies Consultants Provide Expertise At The Intersection Of Business And Technology, Supporting Our Clients In Enhancing Competitiveness And Creating New Sources Of Economic Value. Our Consultants Work With Clients Like You Seeking To Close The Gap Between Business And Information Technology.

## It Staffing & Outsourcing

Replisoft Technologies Offers It Industry For Trained It Staff For Their In-House Support. We Are Here To Help You In 24\*7\*365 Model.

Experienced Replisoft Consultants Provide Support For Product Evaluations Such As:

- Hardware Solution
- Software Solution
- **Operating System**
- Storage Technologies
- Backup & Restore Technologies
- Disaster Recovery & Data Protection
- **Security Concept**

## **COMPANY' OEM PARTNERS:**























# **Working Capital Management**



## **INTRODUCTION:**

The Uses Of Funds Of A Concern Can Be Divided Into Two Parts Namely Long-Term Funds And Short-Term Funds. The Long – Term Investment May Be Termed As 'Fixed Investment.' A Major Part Of The Long-Term Funds Is Invested In The Fixed Assets. These Fixed Assets Are Retained In The Business To Earn Profits During The Life Of The Fixed Assets. To Run The Business Operations Short—Term Assets Are Also Required.

The Term Working Capital Is Commonly Used For The Capital Required For Day-To-Day Working In A Business Concern, Such As For Purchasing Raw Material, For Meeting Day-To-Day Expenditure On Salaries, Wages, Rents Rates, Advertising Etc. But There Are Much Disagreement Among Various Financial Authorities (Financiers, Accountants, Businessmen And Economists) As To The Exact Meaning Of The Term Working Capital.

#### Definition And Classification Of Working Capital:

Working Capital Refers To The Circulating Capital Required To Meet The Day To Day Operations Of A Business Firm. Working Capital May Be Defined By Various Authors As Follows:

- 1. According To Weston & Brigham "Working Capital Refers To A Firm's Investment In Short Term Assets, Such As Cash Amounts Receivables, Inventories Etc.
- 2. Working Capital Means Current Assets. —Mead, Baker And Malott
- 3. "The Sum Of The Current Assets Is The Working Capital Of The Business" —J.S.Mill

Working Capital Is Defined As "The Excess Of Current Assets Over Current Liabilities And Provisions". But As Per Accounting Terminology, It Is Difference Between The Inflow And Outflow Of Funds. In The Annual Survey Of Industries (1961), Working Capital Is Defined To Include "Stocks Of Materials, Fuels, Semi-Finished Goods Including Work-In-Progress And Finished Goods And By- Products; Cash In Hand And Bank And The Algebraic Sum Of Sundry Creditors As Represented By

- (A) Outstanding Factory Payments Eg. Rent, Wages, Interest And Dividend.
- (B) Purchase Of Goods And Services.
- (C) Short-Term Loans And Advances And Sundry Debtors Comprising Amounts Due To The Factory On Account Of Sale Of Goods And Services And Advances Towards Tax Payments".

The Term "Working Capital" Is Often Referred To "Circulating Capital" Which Is Frequently Used To Denote Those Assets Which Are Changed With Relative Speed From One Form To Another I.E., Starting From Cash, Changing To Raw Materials, Converting Into Work-In-Progress And Finished Products, Sale Of Finished Products And Ending With Realization Of Cash From Debtors.

Working Capital Has Been Described As The "Life Blood Of Any Business Which Is Apt Because It Constitutes A Cyclically Flowing Stream Through The Business".

## **CONCEPTS OF WORKING CAPITAL MANAGEMENT**

There Are Two Concepts Of Working Capital Viz. Quantitative And Qualitative. Some People Also Define The Two Concepts As Gross Concept And Net Concept. According To Quantitative Concept, The Amount Of Working Capital Refers To 'Total Of Current Assets. Current Assets Are Considered To Be Gross Working Capital In This Concept.

The Qualitative Concept Gives An Idea Regarding Source Of Financing Capital. According To Qualitative Concept The Amount Of Working Capital Refers To "Excess Of Current Assets Over Current Liabilities."

L.J. Guthman Defined Working Capital As "The Portion Of A Firm's Current Assets Which Are Financed From Long-Term Funds.

The Excess Of Current Assets Over Current Liabilities Is Termed As 'Net Working Capital'. In This Concept "Net Working Capital" Represents The Amount Of Current Assets Which Would Remain If All Current Liabilities Were Paid. Both The Concepts Of Working Capital Have Their Own Points Of Importance. "If The Objectives Is To Measure The Size And Extent To Which Current Assets Are Being Used, 'Gross Concept' Is Useful; Whereas In Evaluating The Liquidity Position Of An Undertaking 'Net Concept' Becomes Pertinent And Preferable.

It Is Necessary To Understand The Meaning Of Current Assets And Current Liabilities For Learning The Meaning Of Working Capital, Which Is Explained Below.

<u>Current Assets</u> – It Is Rightly Observed That "Current Assets Have A Short Life Span. These Types Of Assets Are Engaged In Current Operation Of A Business And Normally Used For Short– Term Operations Of The Firm During An Accounting Period That Is Within Twelve Months. The Two Important Characteristics Of Such Assets Are:

- (I) Short Life Span, And
- (Ii) Swift Transformation Into Other Form Of Assets.

Cash Balance May Be Held Idle For A Week Or Two, Account Receivable May Have A Life Span Of 30 To 60 Days, And Inventories May Be Held For 30 To 100 Days."

Fitzgerald Defined Current Assets As, "Cash And Other Assets Which Are Expected To Be Converted In To Cash In The Ordinary Course Of Business Within One Year Or Within Such Longer Period As Constitutes The Normal Operating Cycle Of A Business."

<u>Current Liabilities</u> – The Firm Creates A Current Liability Towards Creditors (Sellers) From Whom It Has Purchased Raw Materials On Credit. This Liability Is Also Known As Accounts Payable And Shown In The Balance Sheet Till The Payment Has Been Made To The Creditors.

#### **IMPORTANCE/ADVANTAGE OF ADEQUATE WORKING CAPITAL:**

Availability Of Raw Materials Regularly:-

Adequacy Of Working Capital Makes It Possible For A Firm To Pay The Suppliers Of Raw Materials On Time. As A Result It Will Continue To Receive Regular Supplies Of Raw Materials And Thus There Will Be No Disruption In Production Process.

• Full Utilization Of Fixed Assets:-

Adequacy Of Working Capital Makes It Possible For A Firm To Utilize Its Fixed Assets Fully And Continuously. For Example, If There Is Inadequate Stock Of Raw Material, The Machines Will Not Be Utilized In Full And Their Productivity Will Be Reduced.

#### Cash Discount:-

A Firm Having The Adequate Working Capital Can Avail The Cash Discount By Purchasing The Goods For Cash Or By Making The Payment Before The Due Date.

#### • Increase In Credit Rating:-

Paying Its Short-Term Obligations In Time Leads To A Strong Credit Rating Which Enables The Firm To Purchase Goods On Credit On Favorable Terms And To Maintain Its Line Of Credit With Banks Etc. It Facilities The Taking Of Loan In Case Of Need.

#### • Exploitation Of Favorable Market Conditions:

Whenever There Are Chances Of Increase In Prices Of Raw Materials, The Firm Can Purchase Sufficient Quantity If It Has Adequate Of Working Capital. Similarly, If A Firm Receives A Bulk Order For The Supply Of Goods It Can Take Advantage Of Such Opportunity If It Has Sufficient Working Capital

#### Facility In Obtaining Bank Loans:-

Banks Do Not Hesitate To Advance Even The Unsecured Loan To A Firm Which Has The Sufficient Working Capital. This Is Because The Excess Of Current Assets Over Current Liabilities Itself Is A Good Security.

#### Increase In Efficiency Of Management:-

Adequacy Of Working Capital Has A Favorable Psychological Effect On The Managers. This Is Because No Obstacle Arises In The Day-To-Day Business Operations. Creditors, Wages And All Other Expenses Are Paid On Time And Hence It Keeps The Morale Of Manager's High

#### • Ability To Face Crisis:-

Adequate Working Capital Enables A Concern To Face Business Crisis In Emergencies Such As Depression, Because During Such Periods, Generally, There Is Much Pressure On Working Capital.

#### Solvency Of The Business:-

Adequate Working Capital Helps In Maintaining Solvency Of The Business By Providing Uninterrupted Flow Of Production

#### Good Will :-

Sufficient Working Capital Enables A Business Concern To Male Prompt Payments And Hence Helps In Creating And Maintaining Good Will.

## **TYPES OF WORKING CAPITAL**

Working Capital Can Be Classified Either On The Basis Of Its Concept Or On The Basis Of Periodicity Of Its Requirements.

#### A) On The Basis Of Balance Sheet Concept.

On The Basis Of Its Concept, It May Be Either Gross Working Capital Or Net Working Capital. Gross Working Capital Is Represented By The Total Current Assets. The Net Working Capital Is The Excess Of Current Assets Over Current Liabilities.

- (I) Gross Working Capital = Total Current Assets
- (Ii) Net Working Capital = Ca-Cl (Current Assets-Current Liabilities)
- (B) On The Basis Of Requirements

According To Gerstenbergh, The Working Capital Can Be Classified Into Two Categories On The Basis Of Time And Requirement:

#### (I) Permanent Working Capital:-

It Refers To The Minimum Amount Of Investment Which Should Be There In The Fixed Or Minimum Current Assets Like Inventory, Accounts Receivable, Or Cash Balance Etc., In Order To Carry Out Business Smoothly. This Investment Is Of A Regular Or Permanent Type And As The Size Of The Firm Expands, The Requirement Of Permanent Working Capital Also Increases. Tandon Committee Has Referred To This Type Of Working Capital As "Hard Core Working Capital".

#### (li) Variable Working Capital:-

The Excess Of Working Capital Over Permanent Working Capital Is Known As Variable Working Capital. The Amount Of (144) Such Working Capital Keeps On Fluctuating From Time To Time On The Basis Of Business Activities. It May Again Be Sub-Divided Into Seasonal And Special Working Capital. Seasonal Working Capital Is Required To Meet The Seasonal Demands Of Busy Periods Occuring At Stated Intervals. On The Other Hand, Special Working Capital Is Required To Meet Extra-Ordinary Needs For Contingencies. Events Like Strike, Fire, Unexpected Competition, Rising Price Tendencies Or Initiating A Big Advertisement Campaign Require Such Capital. The Following Diagram Illustrates The Difference Between Permanent And Variable Working Capital.

#### **NATURE OF WORKING CAPITAL**

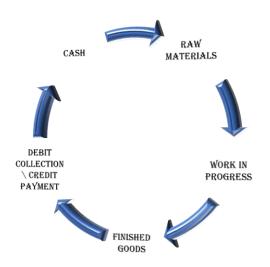
Working Capital Management Is Concerned With The Problems That Arise In Attempting To Manage The Current Assets, The Current Liabilities And The Inter Relationship That Exists Between Them. The Term Current Refers To Those Assets Which In The Ordinary Course Of Business Can Be, Or Will Be Converted Into Cash Within One Year Without Undergoing A Diminution In Value And Without Disrupting The Operation Of The Firm. The Major Current Assets Are Cash, Marketable Securities, Accounts Receivables And Inventory, Current Liabilities Are Those Liabilities, Which Are Intended At Their Inception, To Be Paid In The Ordinary Course Of Business, Within A Year Out Of The Current Or The Earning Of The Concern. The Basic Current Liabilities Are Accounts Payable, Bills Payable, Bank Overdrafts And Outstanding Expenses. The Goal Of Working Management Is To Management Is To Manage

The Firms Assets And Liabilities In Such A Way That A Satisfactory Level Of Working Capital In Maintain. This Is Because If The Firms Cannot Maintain A Satisfactory Level Of Working Capital, It Is Likely To Become Insolvent And May Even Be Forced Into Bankruptcy. The Current Assets Should Be Large Enough To Cover Its Current Liabilities In Order To Ensure A Reasonable Margin Of Safety. Each Of The Short Term Source Of Financing Must Be Continously Managed To Ensure That They Are Obtained And Used In The Way. Interaction Between Current Liabilities Is, Therefore The Main Theme Of The Of Management Of Working Capital.

#### **OPERATING CYCLE CONCEPT**

Every Business Undertaking Requires Funds For Two Prupose-Investments In Fixed Assets And Investment In Current Assets. Funds Required Investing In Inventories; Debtors And Other Current Assets Keep On Changing Shape And Volume. For Example, A Company Has Some Cash In The Beginning. This Cash May Be Paid To The Suppliers Of Raw-Materials, To Meet Labour Costs And Other Overheads. These Three Combined Would Generate Work-In-Progress Which Will Be Converted Into Finished Goods On The Completion Of The Production Process. On Sale, These Finished Goods Get Converted Into Debtors And When Debtors Pay, This Cash Will Again Be Used For Financing Raw Materials, Work-In-Progress, Finished Goods And Debtors Etc. So The Cycle Is Completed On The Conversion Of These Currents Assets Into Cash. This Time Period Is Simply Known As The Working Capital Cycle Of The Firm. In Other Words, Working Capital Cycle Indicates The Length Of Time Between A Firm's Paying For Materials Entering Into Stock And Receiving The Cash From The Sale Of Finished Goods. In A Manufacturing Firm, The Duration Of Time Required To Complete The Sequence Of Events Is Called Operating Cycle. In Case Of A Manufacturing Company, The Operating Cycle Is The Length Of Time Necessary To Complete The Following Cycle Of Events:

- a) Conversion Of Cash Into Raw Materials.
- b) Conversion Of Raw Materials Into Work-In-Progress;
- c) Conversion Of Work-In-Progress Into Finished Goods
- d) Conversion Of Finished Goods In Accounts Receivable, And
- e) Conversion Of Accounts Receivable Into Cash. This Cycle Is Repeated Again And Again.



## **DETERMINANTS OF WORKING CAPITAL:-**

Numbers Of Rules Are Formulated To Determine The Working Capital Requirement Of The Firm. A Large Number Of Factors Influence The Working Capital Needs Of The Firm. All These Factors Have Different Importance, Also The Importance Of The Factor Change For A Firm Over Time. Therefore Analysis Of The Relevant Factor Should Be Made In Order To Determine The Total Investment In Working Capital Requirements Of The Firm.

- 1. Nature And Size Of Business
- 2. Seasonality Of Operation
- 3. Production Policy
- 4. Marketing Conditions
- 5. Business Cycle Fluctuation
- 6. Credit Policy
- 7. Conditions Policy
- 8. Working Capital Policy
- 9. Current Assets In Relation To Sales

#### 1.Nature Of Business:-

The Working Capital Requirement Of A Firm Is Closing Related To The Nature Of Its Business. A Service Firm Like An Electricity. A Service Firm Like An Electricity Undertaking Of A Transport Corporation, Which Has Short Operating Cycle And Sell On Cash Basis, Has Modest Working Capital Requirement. On The Other Hand Manufacturing Concern Like Machine Tools Units Which Has Long Operating Cycle And Which Sells Largely On Credit Had Varied Substantial Working Capital Management.

#### 2.Seasonality Of Operation:-

Firms Which Have Market Seasonally In Their Operation Usually Have Highly Function Working Capital Requirement. For A Sugar Industry The Raw Material That Is, Sugar Cane Is Available In Particular Season Only. So Sugar Industry Mainly Depends Upon Seasonality Of Operations.

#### 3. Production Policy:-

A Firm Marked By Pronounced Seasonal Fluctuations In Its Sales Many Pursue A Production Policy Which Many Reduce The Shape Variation Is Working Capital Requirement.

#### 4.Marketing Conditions:-

In View Of Competitive Conditions Prevailing In The Firm May Have To Offer Liberal Credit Terms, To Customs Resulting In Higher Debtors, Even Large Inventories Many Be Maintain To Serve An Order As When Received.

#### 5. Business Cycle Fluctuations :-

Different Phases Of Business Cycle I.E Boom, Recession, Recovery, Etc. Also Effect Working Capital Requirement. In Case Of Born Conditions Inflationary Prssure Appear And Business Activities Expand. As A Result Overall Need For Cash, Inventories, Etc. Increase Resulting More And More Funds Blocked In These Current Assets. In Case Of Recession Period. How Ever, There In Usually Dullness In Business Activities And There Will Be Opposite Effect On The Level Of Working Capital.

#### 6.Credit Policy :-

The Credit Policy Means The Totality Of Terms And Conditions On Which Goods Are Sold And Purchased. At Firm Has Interact With 2 Types Of Credit Policies At A Time One The Credit Policy Of The Supplier Of Raw Material, Goods, Etc. And Two The Credit Policy Relating To Credit Which It Octends To Its Customer. In Both The Cases, However The Firm While Deciding Its Credit Policy Has To Take Care Of Credit Policy Of The Market For Example Affirm Might Be

Purchasing Gods And Services On Credit But Selling Foods Only For Cash, The Workin Capital Requirement Of This Firm Will Be Lower Than That Of A Firm Which Is Purchasing Cash, But Has To Sell On Credit Basis.

#### 7. Conditions Of Supply:-

If The Supply Is Prompt And Adequate The Firm Can Manage With Small Inventory, If The Supply Is Unpredicted And Service Then The Firm Has To Ensure Continuity Of Production.

#### 8. Working Capital Policy:-

Two Important Issue In Formulation The Working Capital Policy Are:

- 1. What Should Be The Ratio Of Current Assets To Sales.
- 2. What Should Be The Ratio Of Short Term Financing To Long-Term Financing.

#### 9. Current Assets In Relation To Sales:-

It Ussually Does The Invested In Current Assets Cannot Be Specified Unequally. In Sales Of Uncertainty The Outlook On Current Assets Would Consist Of Base Component Meant To Meet Normal Requirement And Safety Component Mean To Copy With Unusual Demands And Requirements. The Safety Assets Policy Of The Firm.

#### **CHANGES IN WORKING CAPITAL:-**

The Working Capital Of A Concern Is Subject To Changes Due To Several Reasons. As We Know That The Gross Working Capital Is Equal To Current Assets. But Net Working Capital We Mean The Excess Of Current Assets Over Current Liabilities. The Net Working Capital Is Therefore, Affected By The Following Transactions.

- 1. Which Increase The Current But Not The Current Liabilities.
- 2. Which Decrease The Current Assets And Current Liabilities Both Increase In The Same Direction By A Transaction It Does Not Bring Any Changes In The Net Working Capital Of The Concern. Only The Total Of Current Assets And Current Liabilities Increase And Decrese.

#### **REASONS FOR CHANGES IN WORKING CAPITAL: -**

- 1. Changes In The Level Of Sales And \Or Operating Expenses
- 2. Policy Changes
- 3. Changes In The Technology.

## **SIGNIFICANCE OF WORKING CAPITAL:**

#### **SIGNIFICANCE**

Gross Working Capital Concept Focuses Attention On The Two Aspect Of Current Asset Management. They Are:

1). Optimum Investment In Current Assets:

Investment In Current Asset Must Be Just Adequate To The Needs Of The Firm. On The Other Hand Excessive Investment In Current Asset Should Be Avoided.

2). Financing Of Current Asset:

Need For Working Capital Arise Due To The Increasing Level Of Business Activity. Therefore, There Is A Need To Provide It Quickly. If There Is Surplus Fund Arise That Should Be Invested In Short Term Securities.

**Net Working Capital Concept** 

As Per This Concept The Excess Of Current Asst Over Current Liabilities Represents Net Working Capital. Similar View Is Expressed By Guthmann, Gerstenberg, Goel Etc.

Net Working Capital Represents The Amount Of Current Asset Which Remain After All The Current Liabilities Were Paid. It May Be Either Positive Or Negative. It Will Be Positive If Current Asset Exceed Current Liabilities And Vice Versa.

To Quote Roy Chowdry, "Net Working Capital Indicates The Liquidity Of The Liquidity Of Business Whilst Gross Working Capital Denotes The Quantum Of Working Capital With Which Business Has To Operate.

#### **SIGNIFICANCE**

Net Working Capital Concept Focuses On Two Aspects. They Are:

1). Maintaining Liquidity Position:

Excess Current Assets Help In Meeting Its Financial Obligation Within The Operating Cycle Of The Firm. Negative And Excess Working Capitals Both Are Bad To The Firm.

2). To Decide Upon The Extent Of Long Term Capital In Financing Current Asset:

Net Working Capital Means The Portion Of Current Asst That Should Be Financed By Long Term Funds. This Concept Helps To Decide The Extent Of Long Term Fund Required In Finance Current Assets.

## **COMPUTATION OF WORKING CAPITAL CYCLE PERIOD**

Working Capital Cycle (Wcc) Is The Time It Takes To Convert Net Current Assets And Current Liabilities (E.G. Purchased Stock) Into Cash. A Long Cycle Means Tying Up Capital For A Longer Time Without Earning A Return. Short Cycles Allow Your Business To Free Up Cash Faster And To Be More Agile.

#### **IMPORTANCE OF THE WORKING CAPITAL CYCLE**

If Every Transaction Your Business Is Involved In Occurred On The Same Day, It Would Be Very Simple To Understand Your Financial Position. However, In Reality, There's Almost Always A Delay Between Paying For Assets, Selling Inventory Or Delivering A Service, And Receiving Payment For Your Goods Or Work. This Can Affect Cash Flow, So It's Important To Manage The Working Capital Cycle To Improve The Short-Term Liquidity And Efficiency Of Your Business.

## **FORMULA: -**

To Calculate Working Capital Cycle, Add The Number Of Inventory Days To Your Receivable Days, Then Subtract The Number Of Payable Days.

The Working Capital Cycle Formula Is:

Inventory Days + Receivable Days - Payable Days = Working Capital Cycle In Days

The Working Capital Cycle Formula May Vary Depending On Different Types Of Business. For Example, A Manufacturing Business Will Have More Phases Than A Retailer.

## What Is A Positive Working Capital Cycle?

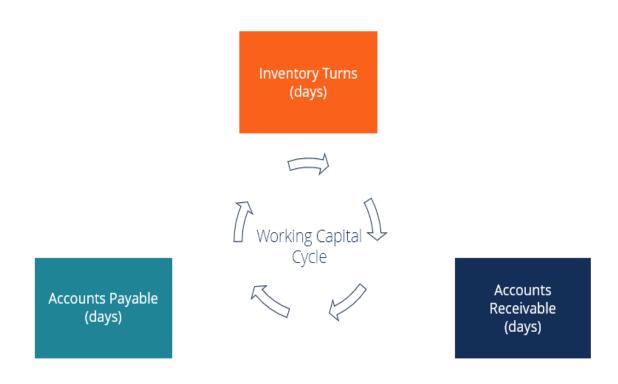
When A Company Is Waiting To Receive Payment To Create Available Cash, It Has A Positive Working Capital Cycle. This Is Normal And The Situation Most Businesses Are In Because They Must Balance Paying Suppliers With Producing Their Product Or Service, And Being Paid.

## What Is A Negative Working Capital Cycle?

As We Saw In The Retailer Example Above, It Is Possible To Have A Negative Cycle If You're Able To Collect Money Faster Than The Time You Require To Pay Your Bills.

## Why A Shorter Working Capital Cycle Can Be Good For Your Business?

A Shorter Working Capital Cycle Is Useful Because It Lets You Free Up Cash For Use Elsewhere That Would Otherwise Be Stuck In The Cycle. In Contrast, If Your Cycle Is Too Long, The Capital Remains Locked In The Operational Cycle Without Giving Any Returns. It's Important To Remember That While Cash Is Locked In The Cycle, The Business Needs To Have Enough Capital To Sustain Its Operations, Otherwise It Could Fall Into Debt And Face Cashflow Problems.



# ANALYSE AND INTERPRETATION OF DATA RATIO ANALYSIS

Ratio Analysis Is A Quantitative Method Of Gaining Insight Into A Company's Liquidity, Operational Efficiency, And Profitability By Studying Its Financial Statements Such As The Balance Sheet And Income Statement. Ratio Analysis Is A Cornerstone Of <u>Fundamental Equity Analysis</u>.

## Types Of Ratio Analysis

The Various Kinds Of Financial Ratios Available May Be Broadly Grouped Into The Following Six Silos, Based On The Sets Of Data They Provide:

## 1. LIQUIDITY RATIOS

<u>Liquidity Ratios</u> Measure A Company's Ability To Pay Off Its Short-Term Debts As They Become Due, Using The Company's Current Or Quick Assets. Liquidity Ratios Include The Current Ratio, Quick Ratio, And Working Capital Ratio.

#### 2. SOLVENCY RATIOS

Also Called Financial Leverage Ratios, <u>Solvency Ratios</u> Compare A Company's Debt Levels With Its Assets, Equity, And Earnings, To Evaluate The Likelihood Of A Company Staying Afloat Over The Long Haul, By Paying Off Its Long-Term Debt As Well As The Interest On Its Debt. Examples Of Solvency Ratios Include: Debt-Equity Ratios, Debt-Assets Ratios, And Interest Coverage Ratios.

#### 3. Profitability Ratios

These Ratios Convey How Well A Company Can Generate Profits From Its Operations. Profit Margin, Return On Assets, Return On Equity, Return On Capital Employed, And Gross Margin Ratios Are All Examples Of **Profitability Ratios**.

#### 4. EFFICIENCY RATIOS

Also Called Activity Ratios, <u>Efficiency Ratios</u> Evaluate How Efficiently A Company Uses Its Assets And Liabilities To Generate Sales And Maximize Profits. Key Efficiency Ratios Include: Turnover Ratio, Inventory Turnover, And Days' Sales In Inventory.

## **5. COVERAGE RATIOS**

<u>Coverage Ratios</u> Measure A Company's Ability To Make The Interest Payments And Other Obligations Associated With Its Debts. Examples Include The <u>Times Interest Earned Ratio</u> And The <u>Debt-Service Coverage Ratio</u>.

#### **6. Market Prospect Ratios**

These Are The Most Commonly Used Ratios In Fundamental Analysis. They Include <u>Dividend Yield</u>, <u>P/E Ratio</u>, <u>Earnings Per Share</u> (Eps), And <u>Dividend Payout Ratio</u>. Investors Use These Metrics To Predict Earnings And Future Performance.

To Perform Ratio Analysis Over Time, A Company Selects A Single Financial Ratio, Then Calculates That Ratio On A Fixed Cadence (I.E. Calculating Its Quick Ratio Every Month). Be Mindful Of Seasonality And How Temporarily Fluctuations In Account Balances May Impact Month-Over-Month Ratio Calculations. Then, A Company Analyzes How The Ratio Has Changed Over Time (Whether It Is Improving, The Rate At Which It Is Changing, And Whether The Company Wanted The Ratio To Change Over Time).

## a. Liquidity Ratios

Liquidity Ratios Are Calculated To Measure The Short-Term Solvency Of The Business, I.E. The Firm's Ability To Meet Its Current Obligations. These Are Analysed By Looking At The Amounts Of Current Assets And Current Liabilities In The Balance Sheet.

#### 1) <u>Current Ratio</u>

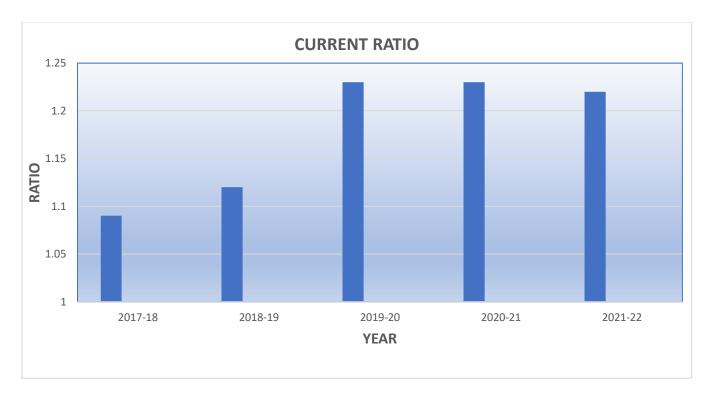
A Current Ratio Is That Liquidity Ratio With Which We Can Identify A Company's Ability To Pay Its Short Term Obligations Or Those That Are To Be Due Within One Year.

Current Ratio = Current Assets \ Current Liabilities

Conventionally, A Current Ratio Of 2:1 Is Considered Satisfactory. This Ratio Can Be Considered As Safe And Conservative Because Even If The Current Assets Get Reduced To Half, Then Also The Company Will Be Able To Clear Off Its Short Term Debts And Liabilities. A Very High Current Ratio Indicates That A Company Is Unable To Utilize Its Assets Efficiently. A Persistent Trend Of Poor Current Ratio (Of Less Than 1) Is A Warning Signal Of Impending Sickness.

Year	Current Assets (Amt)	Current Liabilities(Amt)	Current Ratio (In Times)
2017-18	10668.068	9759.669	1.09
2018-19	11026.936	9875.649	1.12
2019-20	13041.904	10609.414	1.23
2020-21	14085.748	11462.187	1.23
2021-22	15058.757	12370.614	1.22

Table 1 (Amounts In Million Rupees)



## Interpretation:

It Can Be Seen From The Above Graph That The Company's Liquidity Position Is Not Ideal As Per The Standard Ratio 2:1 But Still It Is Greater Than 1 Which Indicates The Company's Ability To Pay Off Its Current Obligations. A Higher Ratio Means The Company Can Easily Fund Its Day-To-Day Operations. The More Working Capital A Company Has, The Less It's Likely To Have To Take On Debt To Fund The Growth Of Its Business. In The Years 2017-18 And 2018-19, The Company Has Rs. 1.23 Of Assets To Clear Its Debt Of Rupee 1. The Year 2017-16 Had The Most Unsatisfactory Current Ratio As Compared To The Current Ratios Of Other Years .The Ratio 1.09 Shows There Are Almost Equal Current Assets And Liabilities.

## 2. Quick Ratio

The Ratio Provides A Measure Of The Capacity Of The Business To Meet Its Short-Term Obligations. It Is Calculated To Serve As A Supplementary Check On Liquidity Position Of The Business And Is Therefore, Also Known As 'Acid-Test Ratio'. While Calculating Quick Assets We Exclude The Inventories. The Quick Assets Are Defined As Those Assets Which Are Quickly Convertible Into Cash.

Quick Ratio = Quick Assets \ Current Assets

Normally, It Is Advocated To Be Safe To Have A Ratio Of 1:1 As Unnecessarily Low Ratio Will Be Very Risky And A High Ratio Suggests Unnecessarily Deployment Of Resources In Otherwise Less Profitable Short-Term Investments

Year	Current Assets(A)	Inventory(B)	Quick Assets (A-B)	Current Liabilities(Amt.)	Quick Ratio (In Ratios)
	1 10 0 10 (1 1)		()		(

2017-18	10668.068	2062.218	8605.85	9759.669	0.88
2018-19	11026.936	2595.112	8431.824	9875.649	0.85
2019-20	13041.904	3126.530	9915.374	10609.414	0.93
2020-21	14085.748	3670.251	10415.497	11462.187	0.91
2021-22	15058.757	4196.971	10861.786	12370.614	0.88

Table 2 Amounts In Million Rupees

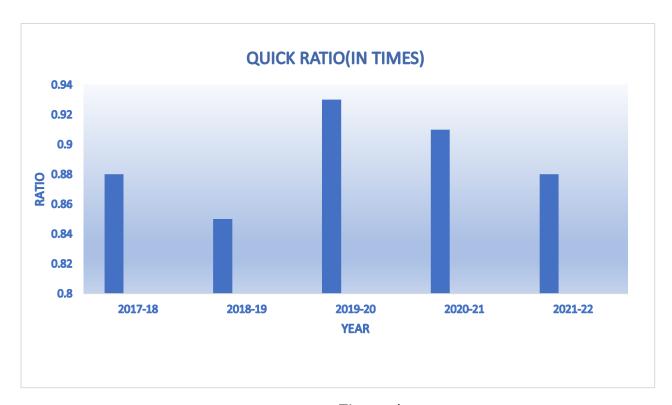


Figure 4

# **Interpretation**

In All The Years, Kbl Has Ratio Less Than 1. A Company Which Has A Quick Ratio Of Less Than 1 May Not Be Able To Fully Pay Off Its Current Liabilities In The Short Term. Higher The Ratio Result, The Better A Company's Liquidity And Financial Health And The Lower The Ratio, The More Likely The Company Will Struggle With Paying Debts.

# **\*** A Comparison Of Current Assets And Current Liabilities

Positive Working Capital Is The Excess Of Current Assets Over Current Liabilities. In Other Words, When The Net Working Capital Is A Positive Figure, It Is Said That The Firm Has A Positive Working Capital. Working Capital Can Be Negative If A Company's Current Assets Are Less Than Its Current Liabilities.

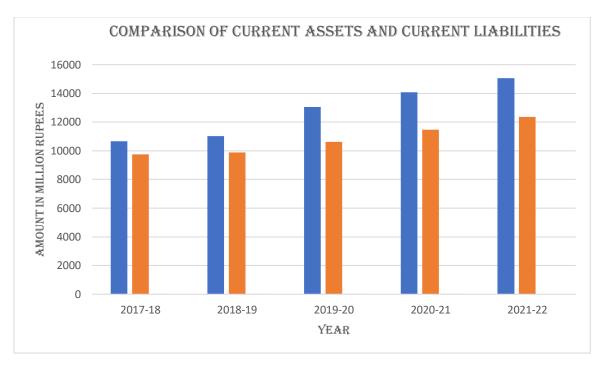


Figure 5 (Amount In Million Rupees)

#### Interpretation:

The Company Has More Current Assets Than Current Liabilities, Which Means It Has Positive Working Capital. Having Enough Working Capital Ensures That A Company Can Fully Cover Its Short-Term Liabilities As They Come Due In The Next Twelve Months. This Is A Sign Of A Company's Financial Strength

#### 1. **Inventory**

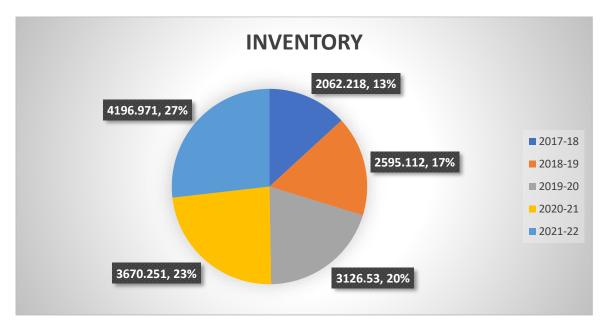


Figure 6 (Amounts In Million Rupees)

#### Interpretation:

Advantages Of Higher Side (Profitability):

Ensures Adequate Stockholding And Increases Profitability . The Highest Inventory Was In 2019-20 At 4196.971.

Advantages Of Lower Side (Liquidity):

Lower Inventory Requires Less Capital But Holding Low Stocks Can Affect Goodwill Adversely If The Demands Of Customers Is Not Met. Lowest Inventory Holding Was In 2017-16 At 2062.218.

• Trade Off Between Profitability And Liquidity:

Using Techniques Like Economic Ordering Quantity (Eoq), Just In Time(Jit) Can Help To Carry Optimum Level Of Inventory.

#### 2. Receivables

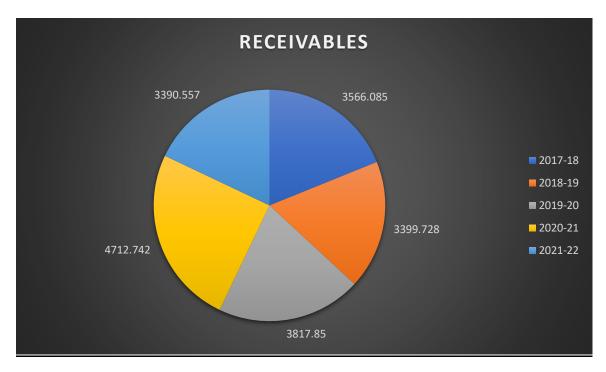


Figure 7(Amounts In Million Rupees)

## **Interpretation:**

• Advantages Of Higher Side (Profitability):

A Higher Credit Period Attracts Customers And Increases Revenue .The Highest Amount Of Receivables Were In 2018-19 At4712.742.

Advantages Of Lower Side (Liquidity):

Cash Sales Boosts Liquidity But Does Not Increase Sales And Revenue .The Lowest Receivables Were In 2019-20 At 3390.557.

• Trade Off Between Profitability And Liquidity:

Evaluate Credit Policy And Use Of Debt Management Services Like Factoring Can Help To Achieve Optimum Amount Of Receivables.

#### 3. Payables

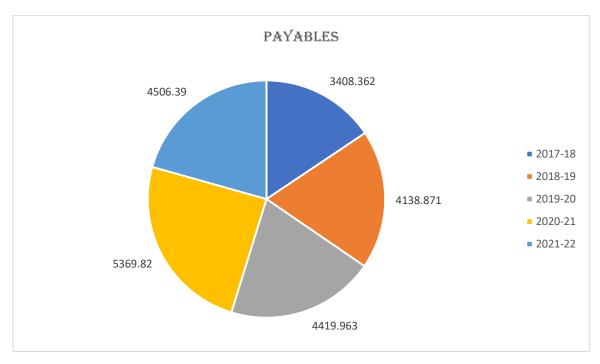


Figure 8 (Amounts In Million Rupees)

#### Interpretation:

Advantages Of Higher Side(Profitability):

Capital Can Be Used In Some Other Investment Avenues. Highest Payables Were In 2018-19 At 5369.82.

Advantages Of Lower Side (Liquidity):

Payables Are Honoured In Time, Improves Goodwill And Is Helpful In Getting Future Discounts .Lowest Payables Were In 2017-16 At 3402.362.

• Trade Off Between Profitability And Liquidity:

Evaluating The Credit Policy And Related Cost.

#### 4. Cash And Cash Equivalents

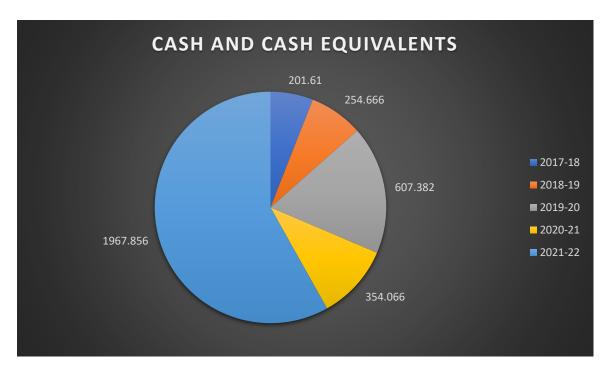


Figure 9 (Amounts In Million Rupees)

#### Interpretation:

Advantages Of Higher Side(Profitability)

Payables Are Honoured In Time, Improves The Goodwill And Helps In Getting Future Discounts .Highest Cash Balance Was In 2019-20 At 1967.856.

• Advantages Of Lower Side (Liquidity):

Cash Can Be Invested In Other Investment Avenues Which Can Help To Generate Profits .The Lowest Cash Balance Was In 2017-16 At 254.666.

Trade Off Between Profitability And Liquidity:

Cash Budgets And Other Cash Management Techniques Can Be Used To Boost And Maintain Adequate Cash Flow.

## **B.** Efficiency Ratios

Efficiency Ratios Are Metrics That Are Used In Analyzing A Company's Ability To Effectively Employ Its Resources, Such As Capital And Assets, To Produce Income. The Following Ratios Are Presented In This Study:

- 1. Working Capital Turnover Ratio
- 2. Inventory Turnover Ratio
- 3. Trade Receivables Turnover Ratio
- 4. Trade Payables Turnover Ratio

#### 1. Working Capital Turnover Ratio

It Is Defined As The Difference Between The Current Assets And Current Liabilities And Working Capital Turnover Ratio Establishes A Relationship Between The Working Capital And Net Sales Generated By The Business.

Working Capital Turnover Ratio = Net Sales \ Net Working Capital

Year	Net Sales ( Amt.)	Net Working Capital (Amt.)	Ratio (In Times)
2017-18	17212.231	908.369	18.94
2018-19	18230.387	1151.287	15.83
2019-20	19345.627	2432.490	7.95
2020-21	19345.627	2323.561	8.47
2021-22	20970.322	2323.561	7.80

Table 3 (Amounts In Million Rupees)

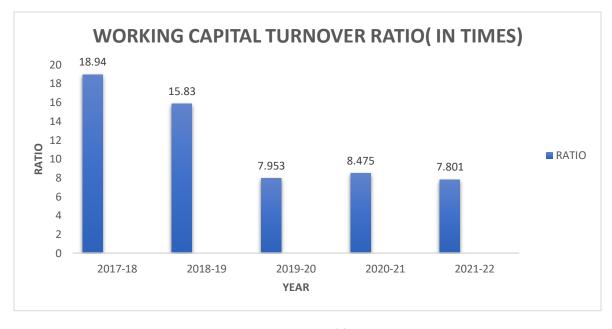


Figure:10

#### Interpretation:

It Can Be Seen From The Graph That The Ratio Is Continuously Fluctuating. The Year 2017-16 Had The Highest Working Capital Turnover Ratio Amongst The Other Years. A High Turnover Ratio Shows That Management Is Being Very Efficient In Using A Company's Short-Term Assets And Liabilities For Supporting Sales. Over The Years, The Ratio Has Come To 7.801 In 2019-20 Which Signifies A Shortage Of Working Capital In The Company Which Is Not Favourable. A Low Ratio Indicates That A Business Is Investing In Too Many Accounts Receivable And Inventory Assets To Support Its Sales, Which Could Eventually Lead To An Excessive Amount Of Bad Debts And Obsolete Inventory.

## 2. Inventory Turnover Ratio

It Determines The Number Of Times Inventory Is Converted Into Revenue From Operations During The Accounting Period Under Consideration. It Expresses The Relationship Between The Cost Of Revenue From Operations And Average Inventory.

Year	Net Sales (Amt.)	Opening Inventory (Amt.)	Closing Inventory (Amt.)	Average Inventory (Amt.)	Ratio (In Times)	Inventory Holding Period (Days)
2017-18	17212.231	1876.566	2062.218	1969.391	8.739	41.76
2018-19	18230.387	2062.218	2595.112	1969.391	7.828	46.62
2019-20	19345.627	2595.112	3126.530	2860.821	6.762	53.97
2020-21	22234.860	3126.530	3670.251	3398.39	6.542	55.79
2021-22	20970.322	3670.251	4196.971	3933.611	5.331	68.47

Table 3 (Amounts In Million Rupees)

Average Inventory = Opening Inventory +Closing Inventory \ 2

Inventory Turnover Ratio = Net Sales \ Average Inventory

Inventory Holding Period = Days In A Year 365 \ Ratio



Figure 11

#### Interpretation:

In The Year 2017-16 The Company Had Inventory Ratio Of 8.739 Which Was The Highest Compared To The Other Years. This Signifies Strong Sales And That The Company Is Able To Sell Its Stocks. In 2019-20, The Ratio Is The Lowest Which Is 5.331. Over The Years, The Ratio Is Declining. This Can Be A Sign Of Poor Selling Or Inventory Policy Which Can Lead To Working Capital Blockage, Piling Up Of Inventory And Quality Deterioration Of Inventory

#### **Inventory Holding Period**



Figure 12

## Interpretaion:

In The Year 2017-16, The Company Took Approximately 41.76 Days To Clear Its Inventory. A Shorter Period Means That The Inventory Is Moving At A Fast Pace. It Shows Efficient Inventory Management. The Days Taken To Clear The Inventory Has Gradually Increased Over The Years. In 2019-20, The Company Took 68.47 Days To Clear Its Inventory Which Means That The Company Holds The Inventory For A Long Period Of Time And Signifies Poor Management Of Inventory.

#### 3. Trade Receivables Turnover Ratio

The Receivables Turnover Ratio Is An Accounting Measure Used To Quantify A Company's Effectiveness In Collecting Its Accounts Receivable, Or The Money Owed By Customers Or Clients. This Ratio Indicates The Number Of Times The Receivables Are Turned Over And Converted Into Cash In An Accounting Period.

Receivables Turnover Ratio = Net Sales \ Average Accounts Receivable

Year	Opening Trade Receivables	Closing Trade Receivables	Average Receivables	Net Sales	Ratio In Times	Average Collection Days
2017-18	3946.738	3566.085	3756.411	17212.231	4.582	79.66
2018-19	3566.085	3399.728	3482.906	18230.387	5.234	69.73
2019-20	3399.728	3817.850	3608.789	19345.627	5.360	68.00
2020-21	3817.850	4712.743	4265.296	22234.860	5.212	70.00
2021-22	4712.743	3390.557	4051.650	20970.322	5.175	70.53

Table 5 (Amounts In Million Rupees)

Average Collection Day = Days In A Year 365 \ Ratio

Average Receivables = Opening Receivables + Closing Receivables \ 2

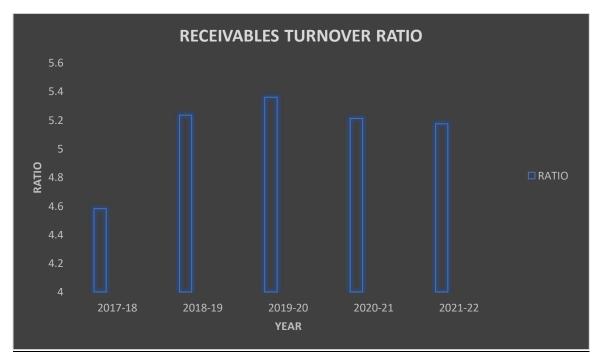


Figure 13

## Interpretation:

In The Year 2017-16, The Company Collected Its Average Receivables Approximately 4.582 Times In A Year. A Low Ratio Indicates The Company's Collection Process Is Poor. However, This Ratio Has Increased Steadily And In The Year 2017-18 It Was At 5.36 Which Is The Highest Among The Other Years. A High Ratio Is Desirable As It Indicates That The Company's Collection Of Receivables Is Frequent And Efficient.

## \* Net Operating Cycle

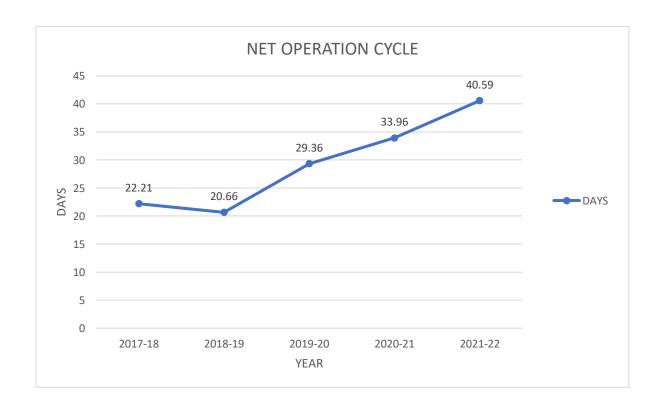
The Net Operating Cycle Or The Cash Conversion Cycle (Ccc) Is A Metric That Expresses The Length Of Time (In Days) That It Takes For A Company To Convert Its Investments In Inventory And Other Resources Into Cash Flows From Sales.

The Net Operating Cycle Can Be Calculated As Follows:

Net Operating Cycle = (Inventory Holding Days + Receivables Collection Days) - Payables Payment Days

Year	Inventory Holding Days (A)	Receivables Collection Days (B)	Payables Payment Days (C)	Gross Operating Cycle (A+B)	Net Operating Cycle (A+B)-C
2017-18	41.76	79.66	99.21	121.42	22.21
2018-19	46.62	69.73	95.59	116.35	20.66
2019-20	53.97	68.00	92.61	121.97	29.36
2020-21	55.79	70.00	91.83	125.79	33.96
2021-22	68.47	70.53	98.41	139	40.59

Table 6 Amount In Million Rupees



## **Interpretation:**

In The Year 2019-20, The Company Takes 40.59 Days To Receive Cash And To Pay The Creditors . This Means That The Cash Is Tied Up For 40.59 Days. In 2018-17, The Company Could Generate Cash In Only 20.66 Days. Having A Shorter Net Operating Cycle Signifies An Effective Management Of Working Capital. Having Longer Operating Cycles Means That The Company Takes A Longer Time For Generating Cash Which Can Pose Liquidity Problems. The Longer The Cash Is Tied Up, The More Money Will Be Needed To Be Borrowed To Run The Day-To-Day Operation . In The Case Of Replisoft Technologies Ltd.Pvt. The Net Operating Cycle Has Lengthened Over The Years Which Indicates That The Cash Is Tied Up In The Operations And Is Not Conducive To A Healthy Working Capital Level. For All Years Replisoft Technologies Pvt. Ltd. Has A Positive Working Cycle. Sometimes, Businesses Can Have A Negative Working Capital Cycle Where They Collect Money Faster Than They Pay Off Bills.

# **CHANGES IN WORKING CAPITAL**

The Excess Of Current Assets Over Current Liabilities Is Referred To As The Company's Working Capital. The Difference Between The Working Capital For Two Given Reporting Periods Is Called The Change In Working Capital.

#### **Benefit**

Changes In Working Capital Is Included In Cash Flow From Operations Because Companies Typically Increase And Decrease Their Current Assets And Current Liabilities To Fund Their Ongoing Operations. When A Company Increases Its Current Assets, It's A Cash Outflow: The Company Had To Shell Out Money To Buy The Extra Assets. Likewise, When A Company Increases Its Current Liabilities, It's A Cash Inflow: The Added Liabilities, Such As Short-Term Debt, Provide Money. Changes In Working Capital Simply Shows The Net Affect On Cash Flows Of This Adding And Subtracting From Current Assets And Current Liabilities. When Changes In Working Capital Is Negative, The Company Is Investing Heavily In Its Current Assets, Or Else Drastically Reducing Its Current Liabilities. When Changes In Working Capital Is Positive, The Company Is Either Selling Off Current Assets Or Else Raising Its Current Liabilities.

## **Origin**

This Information Is Found In The Statement Of Cash Flow Of The Company's Financial Statement.

#### **FORMULA**

Changes In Net Working Capital = Working Capital (Current Year) – Working Capital (Previous Year)

Or

Change In A Net Working Capital = Change In <u>Current Assets</u> – Change In Current Liabilities.

# Statements Of Replisoft Technologies Pvt. Ltd. For The Year 2017-18

Particulars	2017-18	Percentage
Current Assets, Losses And Advances		
Inventory	623.39	42.51
Sundry Debtors	52829	36.02
Cash & Bank Balance	105.58	7.19
Other Current Assets	5837	3.38
Loans And Advances	150.77	10.30
Cuses Maulting Conital(A)		
Gross Working Capital(A)	1466.40	100.00
<b>Current Liabilities &amp; Provision</b>		
Current Liabilities Provision	411.21	87.06
Total Current Liabilities And Provision (B)	61.90	12.94
T TO FIGIOIT (D)	472.03	100.00
Net Working Capital (A-B)	994.10	

Particulars	2018-19	Percentage
Current Assets, Losses And Advances		
Inventory	706.99	46.14
Sundry Debtors	543.83	35.44
Cash & Bank Balance	154.90	10.12
Other Current Assets	54.77	3.54
Loans And Advances	71.63	4.67
Gross Working Capital(A)	1532.14	100.00
Current Liabilities & Provision		
<b>Current Liabilities</b>	423.43	82.68
Provision	88.65	17.32
Total Current Liabilities And Provision (B)	512.08	100.00
Net Working Capital		
(A-B)	1020.06	

Particulars	2019-20	Percentage
Current Assets, Losses And Advances		
Inventory	991.05	49.68
<b>Sundry Debtors</b>	630.62	31.61
Cash & Bank Balance	217.39	10.89
Other Current Assets	90.43	4.53
Loans And Advances	65.32	3.27
Gross Working Capital(A)	1994.81	100.00
Current Liabilities & Provision		
Current Liabilities	534.43	77.52
Provision	154.94	22.47
Total Current Liabilities And Provision (B)	689.37	100.00
Net Working Capital (A-B)	1305.44	

Particulars	2020-21	Percentage
Current Assets, Losses And Advances		
Inventory	1411.41	59.06
Sundry Debtors	521.80	21.83
Cash & Bank Balance	105.58	12.05
Other Current Assets	104.65	4.37
Loans And Advances	63.62	2.66
Gross Working Capital(A)	2389.59	100.00
Current Liabilities & Provision		
Current Liabilities	661.73	75.34
Provision	216.50	24.65
Total Current Liabilities And Provision (B)	878.23	100.00
Net Working Capital (A-B)	1511.36	

Particulars	2021-22	Percentage
Current Assets, Losses And Advances		
Inventory	1164.56	58.40
<b>Sundry Debtors</b>	482.37	24.18
Cash & Bank Balance	162.31	8.14
Other Current Assets	91.93	4.60
Loans And Advances	93.23	4.68
Gross Working Capital (A)	1994.4	100.00
Current Liabilities & Provision		
Current Liabilities	567.43	83.73

# Statement Of Changes In Working Capital Of Replisoft Technologies Pvt . Ltd. For The Year 2017-18

Particulars	Balance		Changes In Working Capital	
	2017	2018	Increase	Decrease
Current Assets				
Inventories	658.25	623.39	_	34.85
Sundry Debtors	709.36	528.29	_	181.06
Cash & Bank Balance	147.95	105.87	_	42.08
Other Current Assets  Loans And Advances	26.30	58.37	32.06	-
Loans And Advances	226.37	150.77	-	75.59
Total(A)	1768.25	1466.71		
Current Liabilities				
Current Liabilities	515.25	411.21	104.04	-
Provision	12.00	61.09	_	49.09
Total(B)	572.25	472.31	_	_
Working Capital				
(A-B)	1241.00	994.40	_	_
Increasing In Working Capital	_	246.60	246.60	-
Total	1241.00	1241.00	382.70	382.70

# Statement Of Changes In Working Capital Of Replisoft Technologies Pvt . Ltd. For The Year 2018-19

Particulars	Balance		Changes In Working Capital	
Current Assets	2018	2019	Increase	Decrease
Inventories	623.39	706.99	83.60	_
Sundry Debtors	528.29	543.83	15.53	_
Cash & Bank Balance	105.87	154.90	49.03	_
Other Current Assets	58.37	54.77	_	3.59
Loans And Advances	150.77	71.63	_	79.14
Total(A)	1466.71	1532.14		
Current Liabilities				
Current Liabilities	411.21	423.23	_	12.21
Provision	61.09	88.65	_	27.55
Total(B)	472.31	512.08	_	_
Working Capital				
(A-B)	994.40	1020.05	_	_
Increasing In Working Capital	25.65	_	-	25.65
Total	1020.05	102.05	148.16	148.16

# Statement Of Changes In Working Capital Of Replisoft Technologies Pvt. Ltd. For The Year 2019-20

Particulars	Balance		Changes In Working Capital	
Occupation of	2019	2020	Increase	Decrease
Current Assets				
Inventories	706.99	901.05	284.06	_
Sundry Debtors	543.83	630.62	86.79	_
Cash & Bank Balance	154.90	217.39	62.48	_
Other Current Assets	54.77	90.43	35.66	_
Loans And Advances	71.63	65.32	_	6.31
Total(A)	1532.14	1994.82		
Current Liabilities				
Current Liabilities	423.43	575.62	_	152.19
Provision	88.65	154.94	_	66.29
Total(B)	512.08	730.57		
Working Capital				
(A-B)	1020.05	1264.25	_	_
Increasing In Working Capital	244.19	-	-	244.19
Total	1264.25	1264.25	468.99	468.99

# Statement Of Changes In Working Capital Of Replisoft Technologies Pvt. Ltd. For The Year 2020-21

Particulars	Balance		Changes In Working Capital	
	2020	2021	Increase	Decrease
Current Assets				
Inventories	991.05	1411.41	420.36	_
Sundry Debtors	630.62	521.80	_	108.82
Cash & Bank Balance				
Other Current	217.39	288.11	70.72	_
Assets	90.43	104.65	14.22	_
Loans And Advances	65.32	65.32		1.7
Total(A)	1994.57	2389.23	_	1.7
Current Liabilities				
Current Liabilities				
Provision	575.62	661.73	_	86.11
	154.94	216.50	_	61.56
Total(B)	730.57	878.23	_	_

# Statement Of Changes In Working Capital Of Replisoft Technologies Pvt. Ltd For The Year 2021-22

Particulars	Balance		Changes In Working Capital	
Current Assets	2021	2022	Increase	Decrease
Inventories	1411.41	1164.54		246.85
Sundry Debtors	521.80	482.38	_	39.42
Cash & Bank Balance	288.12	162.32	_	125.80
Other Current Assets	104.65	91.94	_	12.71
Loans And Advances	63.62	93.23	29.61	_
Total(A)	2389.61	1994.44		
Current Liabilities				
Current Liabilities Provision	661.73	567.44	94.29	_
	216.51	110.30	106.21	-
Total(B)	878.24	677.74	_	_

# **CONCLUSION**

Working Capital Management Is Important Aspect Of Financial Management. The Study Of Working Capital Management Of Replisoft Technologies Pvt. Ltd. Has Revealed That The Current Ratio Was As Per The Standard Industrial Practice But The Liquidity Position Of The Company Showed An Increasing Trend. The Study Has Been Conducted On Working Capital Ratio Analysis, Working Capital Leverage, Working Capital Components Which Helped The Company To Manage Its Working Capital Efficiency And Affectively.

- 1. Working Capital Of The Company Was Increasing And Showing Positive. Working Capital Per Year. It Shows Good Liquidity Positions.
- 2. Positive Working Capital Indicates That Company Has The Ability Of Payments Of Short Terms Liabilities.
- 3. Working Capital Increased Because Of Increment In The Current Assets Is More Than Increase In The Current Liabilities.
- 4. Company's Current Assets Were Always More Than Requirement It Affect On Profitability Of The Company.
- 5. Current Assets Are More Than Current Liabilities Indicate That Company Used Long Term Funds For Short Term Requirement, Where Long Term Funds Are Most Costly Then Short Term Funds.
- 6. Current Assets Components Shows Sundry Debtors Were The Major Part In Current Aseets It Shows That The Inefficient Receivables Collection Management.
- 7. In The Year 2017-18 Working Capital Increased Because Decreased The Expenses As Manufacturing Expenses And Decrease The Price Of Raw Material As Increased In The Inflation Rate.

# **SUGGESTION: -**

Suggestion Can Be Use By The Firm For The Betterment Increased Of The Firm After Study And Analysis Of Project Report On Study And Analysis Of Working Capital. I Would Like To Recommend.

- 1. Comapany Should Raise Funds Through Short Term Sources For Short Term Requirement Of Funds, Which Comparatively Economical As Compare To Long Term Funds.
- 2. Company Should Take Control On Debtor's Collection Period Which Is Major Part Of Current Assets.
- 3. Company Has To Take Control On Cash Balance Because Cash Is Non Earning Assets And Increasing Cost Of Funds.

# **BIBLIOGRAPHY**

The Various Books And Replisoft Technologies And Other Sources That Have Been Used To Complete This Project Are Illustrated As Under: -

- 1. Bibliography References For
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  - II. Annual Report Of Replisoft 2017-2022
  - III. Financial Bulleting Of Replisoft Technologies
  - IV. Financial Report Of Replisoft Technologies
- 2. From Websites Of Www. Replisoft Technologies Pvt. Ltd.

# **BCA**

# KAZI NAZRUL UNIVERSITY

A Project submitted in partial fulfillment of The requirement for the Degree of Bachelor of Computer Applications

# **BILLING SYSTEM**

Course Code:-BCAC605

Year of Examination: 2023

Submitted by

NADEEM AHMED SK(KNU20103002640)

ROHIT YADAV (KNU2010300129)

PRATIKIPRASAD 1/ KNU20103003634

of

**BIDHAN CHANDRA COLLEGE** 

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### CERTIFICATE FROM PROJECT GUIDE

This is to certify that this project entitled "BILLING SYSTEM" submitted in partial fulfillment of the degree of BCA, Kazi Nazrul University, done by Mr. NADEEM AHMED SK, Roll No. 01 is an is an authentic work carried out by him/her at Bidhan Chandra College under my guidance. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief and project report is developed according to the "BCA PROJECT & PROJECT REPORT
STANDARD 2023, KAZI NAZRUL UNIVERSITY"

Roll no - 1032006125010008

Signature of the student

Signature of the Guide



### CERTIFICATE FROM PROJECT GUIDE

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2023, KAZI NAZRUL UNIVERSITY"

Roll war 103200612501004

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Signature of the Guide

A. Das

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Signature of the Guide

A Das



### CERTIFICATE

The foregoing project report entitled "BILLING SYSTEM" is hereby approved as a creditable project and has been presented in a satisfactory manner to warrant its acceptance as prerequisite to the degree for which it was submitted.

It is understood that by this approval, the undersigned do not necessarily endorse any conclusion drawn or opinion expressed therein, but approve the project for the purpose for which it is submitted.

Head of the Institution Principal Bidhan Chandra College Asansol

### SELF CERTIFICATE

This is to certify that the dissertation/project report entitled

"BILLING SYSTEM" is done by me is an authentic work carried out for the partial fulfillment of the requirements for the award of the degree of BCA under the guidance of

Mr. Rajdip Chatterjee . I also certify that that I am aware of the "BCA

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# PROJECT SYNOPSIS

The Grocery shops is enlarging rapidly and their owners are keen to improve every section of their business. Though much attention is paid to digitalizing the billing management, but not many shop owners realize the importance of applying digital billing software in their system. The customer's experience at your shop includes the billing and payment experiences too. Billing software provides some exclusive features that ease up the payment services. It upgrades the billing process and uplift the customer's experience. It enables customers to pay bills more easily. The software can generate detailed bills that eliminate the need to calculate bills separately when the guests wish to know total tax amount in different products. Apart from billing, the software enables you to organize a number of processes. It makes your system more effective and helps you provide faster and easy services to the customers. So many times, customers leave unhappy due to improper billing. When the crowd is vast in the store, it might take you some time to generate manual bills that may leave your customers unsatisfied. This is where the automated billing system can be used. It generates digital bills automatically and allows customers to make quick payments.

- Firstly, Customer's name and phone number is taken to generate bill.
- Bill no. will be generated automatically.
- Product quantity is mentioned to calculate the total amount.
- Total button will sum up the bill and display it in the respective product section along with total tax.
- Generate bill button will generate the bill along with company name.

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# 1. INTRODUCTION

Billing System Using Python can be very useful within a business environment. Instead of doing manual work for making up a bill at store, which gets tiring and time consuming, you can generate a bill including tax and service charges in just few clicks. When making up a bill manually at a Restaurant may contain some human errors like adding wrong items into the bill or summing up their total also may end up wrong, it also sometimes results into a Bad Impression towards the Store from a Customer. Ideally, user should be able to generate bill without any mistakes and quickly, enabling them to fasten or improve their process. To overcome this problem, we have come up with this project, that is, Billing System Using Python.

The Billing System Using Python is very useful to small business or grocery stores. This helps the owner to fasten the process which is bug free and easy to use. It also has a calculator to case the use of the user. This project firstly has the list and then adds up the selected items by customer and sums up the total of all items adds tax and service charges and displays total. To perform any other operation like division, multiplication, etc.

Moving on, this billing system project in Python focuses mainly on dealing with customer's payment details with their respective groceries. Also, the system allows the selection of items for calculation and entering the quantities. In an overview of this app, the system user has to select a particular item, enter a certain quantity and generate the total cost. In addition, the system generates the total bill amount with tax. Besides, the system also generates a bill receipt with a reference number. Additionally, the system also contains a mini calculator where the user can perform simple mathematics for calculation too. So with it, this simple project can perform all the important tasks for calculations of the total bill amount of the customer.

Last but not least, a clean and simple GUI is presented with simple colour combinations for a greater user experience while using this billing system project in Python. For its UI elements, a standard GUI library: Tkinter is on board. Presenting a new billing system in Python project which includes a user panel that contains all the essential features to follow up, and a knowledgeable resource for learning purposes.

# 2. PROJECT DETAILS

Billing System Project is a simple console application designed to demonstrate the practical use of python and its features as wells as to generate an application which can be used in any grocery store, shops, cafes etc. for billing to the customer. There is always a need of a system that will perform easy billing calculation in a grocery store. This system will reduce the manual operation required to maintain all the bills. And also generates bill receipt with unique bill number.

### 2.1 System Requirements:

Here we are including the software's and hardware's used for developing the project and implementing the project.

- A. Software Requirements
- 1. Python 3.9 or VS Code
- Notepad
- 3. Any OS
- B. Hardware Requirements
- 1.2 GB RAM or above
- 2. Intel i3 Processor or above
- 3. 32 Bit System or above

## 2.2 Proposed System:

Since many grocery shops make bills for their customers manually with a pen paper. This sometimes results into an error of total or wrong items added or some items missing in bill or extra items added. This may end up by building up a bad impression of customer towards the Store. So, to overcome this problem we've come up with this helpful project named Billing System Using Python. We all love going to cafes or restaurants but when it takes time for them to make a bill or if they Make wrong bill then it's time consuming. So, to avoid all such chaos our project will help in All possible terms.

### 2.3 Definitions and Theories:

The Bill Management System helps the Store manager to manage the store more effectively and efficiently by computerizing product ordering, billing and inventory control. There is always a need of a system that will perform easy billing calculation in a grocery store. This system will reduce the manual operation required to maintain all the bills. And also generates bill receipt with unique bill number.

### Python:

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

Python was developed by Guido van Rossum in the late eighties and early nineties at the National Research Institute for Mathematics and Computer Science in the Netherlands.

Python is derived from many other languages, including ABC, Modula-3, C, C++, Algol-68, SmallTalk, and Unix shell and other scripting languages.

Python is copyrighted. Like Perl, Python source code is now available under the GNU General Public License (GPL).

Python is now maintained by a core development team at the institute, although Guido van Rossum still holds a vital role in directing its progress.

# PYTHON'S FEATURES

- Easy-to-learn Python has few keywords, simple structure, and a clearly defined syntax. This allows the student to pick up the language quickly.
- Easy-to-read Python code is more clearly defined and visible to the eyes.
- Easy-to-maintain Python's source code is fairly easy-to-maintain. A
- broad standard library Python's bulk of the library is very portable and cross-platform-compatible on UNIX, Windows, and Macintosh. Interactive
- Mode Python has support for an interactive mode which allows interactive testing and debugging of snappets of code. Portable Python
- can run on a wide variety of hardware platforms and has the same interface on all platforms.
- Extendable You can add low-level modules to the Python interpreter. These modules enable programmers to add to or customize their tools to be more efficient.
- Databases Python provides interfaces to all major commercial databases.
- GUI Programming Python supports GUI applications that can be created and ported to many system calls, libraries and windows systems, such as Windows MFC, Macintosh, and the X Window system of Unix.
- Scalable Python provides a better structure and support for large programs than shell scripting.

# 4.Data Flow Diagram:

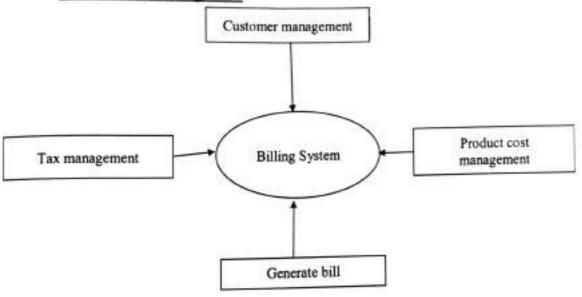


Fig 1 Level Zero DFD of Billing System

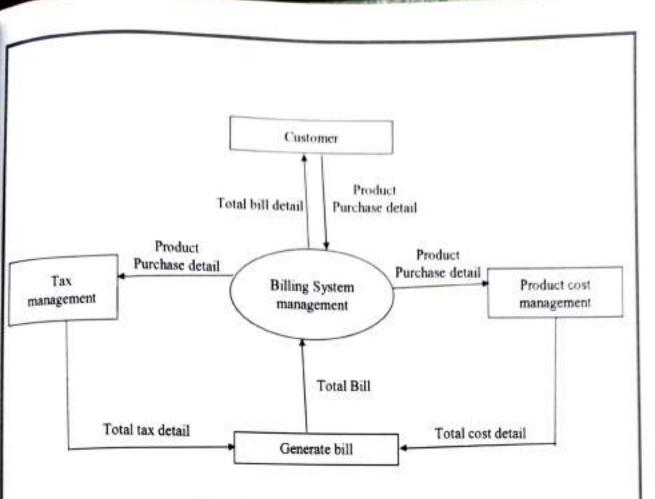


Fig 2 Level One DFD of Billing System

# ENTITY - RELATIONSHIP DIAGRAM MODEL (ERD):

Based upon the proposed modules and sub modules the tables with their attributes and designed and the relationship between them is sketched with the help of an ERD E-R diagram can express the overall logical structure of the database graphically. ERD maintains all the cardinality of the entity

Let us now learn how the ER Model is represented by means of an ER diagram. Any object, for example, entities, attributes of an entity, relationship sets, and attributes of relationship sets, can be represented with the help of an ER diagram.

### Entity:

Entities are represented by means of rectangles. Rectangles are named with the entity set they represent.

### Attributes :

Attributes are the properties of entities. Attributes are represented by means of ellipses. Every ellipse represents one attribute and is directly connected to its entity (rectangle).

### Relationships:

Relationships are represented by diamond-shaped box. Name of the relationship is written inside the diamond-box. All the entities (rectangles) participating in a relationship, are connected to it by a line.

# ER Diagram: CITY Proofe Door No. Oy Price Address Threshold Mβ Employee Sec\_Wor 臤 Section Work Section WAddress Desig D08 Description

# Waterfall Model:

The Waterfall Model was the first Process Model to be introduced. It is also referred to as a linearsequential life cycle model. It is very simple to understand and use. In a waterfall model, each phase must be completed before the next phase can begin and there is no overlapping in the phases.

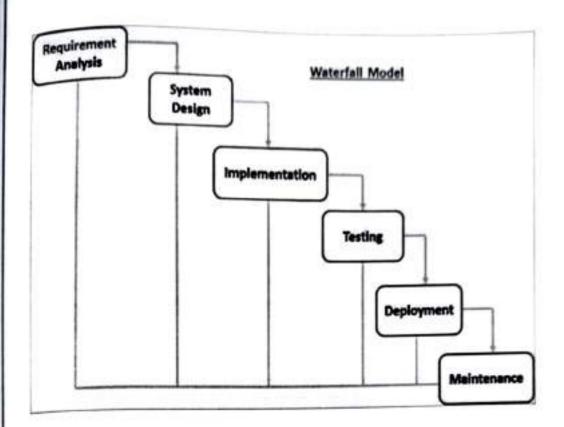
The Waterfall model is the earliest SDLC approach that was used for software development.

The waterfall Model illustrates the software development process in a linear sequential flow. This means that any phase in the development process begins only if the previous phase is complete. In this waterfall model, the phases do not overlap.

# Waterfall Model - Design :

Waterfall approach was first SDLC Model to be used widely in Software Engineering to ensure success of the project. In "The Waterfall" approach, the whole process of software development is divided into separate phases. In this Waterfall model, typically, the outcome of one phase acts as the input for the next phase sequentially.

The following illustration is a representation of the different phases of the Waterfall Model.



The sequential phases in Waterfall model are -

#### Requirement Gathering and analysis -

A-I possible requirements of the system to be developed are captured in this phase and documented in a requirement specification document.

System Design – The requirement specifications from first phase are studied in this phase and the system design is prepared. This system design helps in specifying hardware and system requirements and helps in defining the overall system architecture.

Implementation — With inputs from the system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality, which is referred to as Unit Testing.

Integration and Testing - All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.

<u>Deployment of system</u> — Once the functional and non-functional testing is done; the product is deployed in the customer environment or released into the market.

<u>Maintenance</u> - There are some issues which come up in the client environment. To fix those issues, patches are released. Also to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.

All these phases are cascaded to each other in which progress is seen as flowing steadily downwards (like a waterfall) through the phases. The next phase is started only after the defined set of goals are achieved for previous phase and it is signed off, so the name "Waterfall Model". In this model, phases do not overlap.

## Waterfall Model - Application :

Every software developed is different and requires a suitable SDLC approach to be followed based on the internal and external factors. Some situations where the use of Waterfall model is most appropriate are:

- Requirements are very well documented, clear and fixed.
- ∃ Product definition is stable.
- Technology is understood and is not dynamic.
- There are no ambiguous requirements.
- Ample resources with required expertise are available to support the product.
- The project is short.

## Waterfall Model - Advantages

The advantages of waterfall development are that it allows for departmentalization and control.

A schedule can be set with deadlines for each stage of development and a product can proceed through the development process model phases one by one.

Development moves from concept, through design, implementation, testing, installation, troubleshooting, and ends up at operation and maintenance.

Each phase of development proceeds in strict order.

#### Waterfall Model - Disadvantages

The disadvantage of waterfall development is that it does not allow much reflection or revision. Once an application is in the testing stage, it is very difficult to go back and change something that was not well-documented or thought upon in the concept stage.

## 6.Outcomes of the project

As we already said, businesses use billing systems to generate automated bill to their customers or partners and receive payments. Consequently, the billing system helps companies to improve performance and reduce errors by automating document preparation and other routine tasks. One of the most important benefits of billing software is that it makes your payment and calculation processing easier. Other than that, it allows you to collect details of regular customer and help you with the tax process. The software will generate bill along with the tax included in particular items.

## 7. Working Flow of the Project

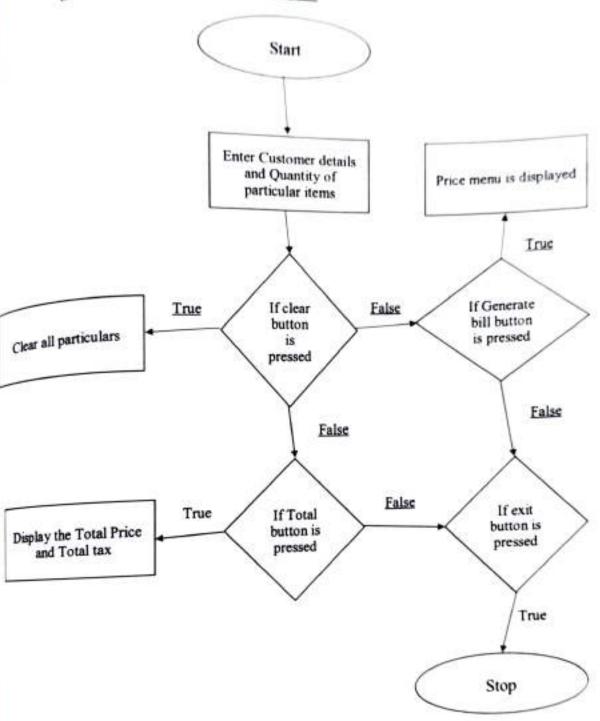


Fig 3 Flow Diagram

## Features of a Billing SYSTEM Software

business uses different billing software for refining their accounting solutions. Your

- Instant New Invoices- A good software automatically analysis your credit/debit tables timesheets, and consumer reports.
- 2 Individual Customer Tracking- Creates a single database that will easily segregate accessibility.
- Quick Receiving & Information Transferring- A central server facility that will help you send all the latest updates and information to customers. All previous records shall be readily made available inside its database.
- Colour-Coded Templates- A readily defined colour-coded templates help in quickly identifying the type of invoice or circular it is. It will help in personalising accounts along with the benefit of saving time.
- Credit Card Assessment- A modern billing sequence should produce easy invoices via quickly processing credit cards. It makes the billing process recurring and amplifies consumer supervision. Newer software enables auto-billing for credit cards, so the patron doesn't miss their older debts.
- Generate Tax Reports- A smart software solution should eliminate the needs for any manual or different apps. It should easily summarise and present you with an accurate tax report depending on years of business.

Why do businesses need Billing SYSTEM Software?

- , It eliminates the manual data entry and calculation process.
- Helps in devising the accuracy of all accounting records
- Diminishes human errors and keeps transactions explicit
- Helps in creating monetary calendars and reminders.
- Manages staff hours, attendance, and salary records
- Also available free of cost for smaller businesses.
- Helps to segregate different invoices.
- Will enhance your business with sophisticated and effortless features.
- Avoids minimal issues like hidden prices and cover every element.
- Helps in future business analysis and decision making.
- · Saves a lot of time and money.
- It also encourages faster payments.

## Advantages of Billing SYSTEM Software

- You can curate accurate and professional looking invoices with multiple templates.
- Reduces material costing that comes with manual billing and filing.

- Automatic update features keep business deals, changes, and offers in the loop within customers.
- Retail billing software helps small businesses to penetrate offline and online much conveniently.
- Effective communication is established without constant personal calls for a reminder of payments.
- The instant invoice helps the customers understand a clear breakup of charges and deductions involved in that particular transaction.
- Within the touch of your fingers, your software and records can be checked and maintained via mobile devices; even while you are away.
- Combined with external software that will help in smoother tracking of the business.
- Quicker scanning via barcodes or offer codes helps in avoiding the use of calculators, hence, increasing unnecessary queues in the shop.
- Helps in <u>GST Tax</u> calculation.

## Disadvantages of Billing SYSTEM Software

- It is not cost-effective for small scale business owners.
- Invoices can go into spam folders due to flagging by email servers; that leads to delay
  of payments.
- Reaching offline customers who do not access the internet makes the process difficult.
- Automatic invoices and management system reduces human mediation, which reduces personal touch for the business.

```
from tkinter import *
import random
class Bill App:
def init_(self, root):
self-root = root
self-root.geometry("1300x700+0+0")
self root, maxsize (width 1280, height = 700)
self-root minsize (width 1280, height 700) self-root title("Billing Software")
...variables
self.cus_name = StringVar() self.c_phone StringVar()
sfor Generating Random Bill Numbers
s random.randint(1000,9999) self.c_bill_no = StringVar()
Meting Value to variable
self.c_bill_no.set(str(x))
self.bath soap= IntVar()
self.face_cream IntVar() self.face_wash = IntVar()
self.hair spray = IntVar()
self.body lotion = IntVar()
 self.rice IntVar()
 self.daal- IntVar()
 self.food oil = IntVar()
 self.wheat IntVar()
 self.sugar intVar()
 self.maza IntVar()
 self.coke IntVar())
 self.frooti - IntVar() self.nimko IntVar()
 self.biscuits = IntVar()
 self total cosmetics StringVar()
 self.total grocery StringVar() self.total other StringVar()
  self.tax_cos = StringVar()
 self.tax groc StringVar()
```

```
self.tax_other = StringVar()
se color="#074463" fg_color "white"
pl_color = 'white'
state of App
ntie Label(self.root, text "Billing Software", bd = 12, relief GROOVE, fg
($ color, bg bg_color, font ("times new roman", 38, "bold"), pady = 3).pack(fill = x)
******Customers Frame--#
f1 = LabelFrame(text = "Customer Details", font = ("time new roman", 12, "bold"), fg
"gold", bg bg_color, relief GROOVE, bd = 10) F1.place(x 0,y= 80, relwidth = 1)
cname_1b1
Label (F1, text="Customer
Name", bg
bg_color, fg
 fg_color, font=("times new roman", 15, "bold")).grid(row= 8, column = 8,padx = 10, pady
 cname_en Entry(F1, bd = 8,relief = GROOVE, textvariable = self.cus_name) cname_en.grid(row=8,
 column = 1,ipady = 4, ipadx = 38, pady = 5)
 Customer Phone*===========
 cphon_1b1 Label(F1, text = "Phone No", bg bg_color, fg fg_color,
 font new roman", 15, "bold")).grid(row 8, column = 2, padx = 20) cphon_en Entry (F1,bd 8,relief
 GROOVE, textvariable self.c_phone) cphon_en.grid(row 8, column= 3,ipady = 4, ipadx = 30, pady = 5)
 ********Customer Bill No
 cbill_lbl Label (F1, text "Bill No.", bg bg_color, fg fg_color, font
 ("times new roman", 15, "bold"))
 cbill_lbl.grid(row= 8, column = 4, padx = 20)
 cbill en Entry (F1, bd 8,relief = GROOVE, textvariable self.c_bill_no) cbill_en.grid(row= 0, column
 5,1padx = 30, ipady = 4, pady = 5)
```

```
profes Bill Search Button ----
Button (F1, text "Enter", bd 7, relief GROOVE, font ("times new 12, "hold"), bg bg_color, fg
K.color)
bin grid(row= 0, column = 6, ipady = 5, padx = 60, ipadx= 19,pady = 5)
**** Cosmetics Frame.**
rand" font ("times news)
K color, fg = "gold", font ("times new roman", 13, "bold"))
(2 place(x = 5,y= 180, width 325, height 380)
roman".
##SESSESSESSESSES Content
bi Label(F2, font = ("times new roman", 15, "bold"), fg = lbi_color, bg
M_color, text "Bath Soap")
bith_lbi.grid(row= 8,column= 0, padx = 18,pady = 20) bath_en Entry (F2, bd = 8,relief = GROOVE.
testvariable = self.bath_soap)
bath_en.grid(row= 0, column = 1,ipady = 5, lpadx = 5)
 ******Face Cream
 face_lbl= Label (F2, font = ("times new roman",15,"bold"), fg = lbl_color,bg
 bg_color,text = "Face Cream")
 tace_lbi.grid(row= 1, column = 0,padx = 10, pady = 20)
 face_en Entry (F2, bd 8,relief = GROOVE, textvariable self.face cream) face_en.grid(row= 1, column=
 Lipady 5, ipadx = 5)
 *******Face Wash
 wash_1b1 Label(F2, font ("times new roman", 15, "bold"), fg lbl_color,bg bg_color,text = "Face
 Wash*)
 wash_fbl.grid(row= 2,column = 0,padx 10,pady = 20) wash_en Entry (F2, bd = 8,relief = GROOVE,
 textvariable self.face_wash) wash_en.grid(row= 2, column = 1,ipady 5,ipadx = 5)
 *********Hair Spray
 hair_1b1 = Label (F2, font = ("times new roman", 15, "bold"), fg = lbl_color,bg bg_color,text = "Hair
 Spray")
 hair_lbl.grid(row= 3,column= 0,padx = 10,pady = 20) hair_en Entry (F2,bd= 8,relief = GROOVE,
 lextvariable self.hair_spray)
  hair_en.grid(row= 3, column= 1,ipady = 5, ipadx = 5)
```

```
**********Body Lotion
pt |b| Label (F2, font ("times new roman", 15, "bold"), fg |b|_color, bg
bs color, text "Body Lotion")
ps. ph.grid(row= 4, column=0,padx= 10, pady = 20)
lot en Entry (F2, bd 8, relief = GROOVE, textvariable self.body lotion)
of_en.grid(row= 4, column= 1,ipady 5,ipadx= 5)
Grocery Frames F2 = LabelFrame(self.root, text = 'Grocery,bd 10,relief = GROOVE, bg
bf_color, fg "gold", font = ("times new roman", 13, "bold"))
F2.place(x = 338,y= 180, width 325, height = 380)
g*********Frame Content rice_1b1 = Label (F2, font = ("times new roman", 15, "bold"), fg =
lbl_color,bg
bg_color,text "Rice")
rice_lbl.grid(row= 8,column= 8,padx = 10, pady = 28) rice_en Entry (F2, bd 8, relief= GROOVE,
textvariable self.rice) rice_en.grid(row= 0, column= 1,ipady = 5,ipadx = 5)
 oil_lbl = Label(F2, font = ("times new roman", 15, "bold"), fg = lbl_color,bg
 bg_color, text="Food 011")
 oil_lbl.grid(row= 1, column = 0, padx= 10, pady = 20) oil en Entry (F2, bd 8,relief GROOVE,
 textvariable self.food_oil) oil_en.grid(row= 1, column 1, ipady 5, ipadx = 5)
 daal 1b1 Label (F2, font ("times new roman", 15, "bold"), fg = lbl_color, bg bg_color,text "Daai") =
 daal_lbl.grid(row= 2,column= 0, padx = 18,pady = 20) daal_en Entry (F2, bd 8, relief = GROOVE,
 textvariable = self.daal) daal_en.grid(row = 2, column 1,ipady = 5,ipadx = 5)
```

```
Parata and a second
best | bl Label (F2, font = ("times new roman", 15, "bold"), fg = lbl_color.hg
ne color, text = "Wheat")
be to bl.grid(row= 3,column= 0, padx 10, pady = 20)
wheat en Entry (F2, bd = 8, relief = GROOVE, textvariable self wheat)
wheat_en.grid(row=
3.column
, Lipady
| Label (F2, font = ("times new roman", 15, "bold"), fg = lbl_color,bg
5.ipadx = 5)
ts_color, text = "Sugar")
ibl.grid(row 4, column = 0, padx 10,pady = 20)
 sugar_en Entry (F2, bd 8, relief= GROOVE, textvariable sugar_en.grid(row= 4, column= 1, ipady =
 5,ipadx = 5)
 _Other Stuff=***
 F2 = LabelFrame(self.root, text "Others, bd 10, relief
 bg_color, fg = "gold", font ("times new roman", 13, "bold")) F2.place(x 655,y 180, width 325, height
  380)
 #sssssssss=s=Frame Content
 maza lbi Label (F2, font ("times new roman", 15, "bold"), fg = lbi_color, bg
  bg_color,text = "Maaza")
  maza_lbi.grid(row= 0, column= 0, padx= 18,pady = 20)
  maza en Entry (F2, bd = 8, relief = GROOVE, textvariable = self.maza) maza_en.grid(row= 8,column=
  tock_1b1 Label(F2, Font ("times new roman", 15, "bold"), fg 1b1_color, bg
  bg_color,text = "Coke")
   cock_1b1.grid(row=
   1, column
   = 0.padx
   tock_en - Entry (F2, bd 8, relief GROOVE, textvariable = self.coke)
```

```
cock_en.grid(row

1, column

= 1,ipady 5, ipadx = 5)

self.sugar)

GROOVE, bg

bg_color, text = "Frooti")

frooti_lbi_Label(F2, font ("times new roman", 15, "bold"), fg lbi_color,bg

frooti_lbi_grid(row 2, column = 0, padx= 10, pady = 20) Frooti en Entry (F2, bd = 8, relief GROOVE, textvariable = self.frooti
)
```

```
foot_en.grid(row= 2, column = 1, ipady = 5, ipadx = 5)
frooti_stabel (F2, font = ("times new roman",15, "bold"), fg = lbl_color,bg
bs_color,text = "Nimkos")
old |bl.grid(row= 3,column= 0,padx = 10, pady = 20)
cold_lu-s
cold_en = Entry(F2, bd = 8, relief = GROOVE, textvariable = self.nimko) cold_en.grid(row= 3, column = cold_en = 5, ipadx = 5)
Lipady = 5, ipadx = 5)
bib | Label (F2, font = ("times new roman", 15, "bold"), fg = 1b1 color, bg
bs_color, text "Biscuits")
bis_lbl.grid(row= 4, column 8, padx= 18,pady = 20)
bis_en = Entry(F2,bd = 8, relief = GROOVE, textvariable = self.biscuits)
bis en.grid(row= 4,column = 1,ipady = 5,ipadx = 5)
f3 Label (self.root, bd = 10, relief = GROOVE)
<sub>F3.place</sub>(x960,y 188,width 325,height = 380)
 = Label (F3,text = "Bill Area", font = ("Lucida", 13, "bold"),bd=
 bill_title
 7, relief = GROOVE) bill title.pack(fill = X)
 scroll_y Scrollbar(F3, orient = VERTICAL)
 self.txt = Text (F3,yscrollcommand = scroll_y.set)
 scroll y.pack(side RIGHT, fill = Y)
  scroll_y.config(command = self.txt.yview)
  F4 LabelFrame(self.root,text = '8111 Menu, bd 18, relief = GROOVE, bg= bg_color, fg = "gold", font =
  ("times new roman", 13, "bold"))
  F4.place(x = 0, y = 560, relwidth= 1, height = 145)
```

```
1b1 = Label (F4, font ("times new roman", 15, "bold"), fg = 1b1_color.bg
rotal Cosmetics")
text 1b1.grid(row= 0,column=0,padx = 18, pady = 0)
 en = Entry (F4, bd = 8, relief = GROOVE, textvariable = self.total_cosmetics)
 cosm_en.grid(row = 8, column = 1, ipady = 2,ipadx = 5)
 rosm_

1b1 Label (F4, font = ("times new roman", 15, "bold"), fg 1b1_color, bg=
 tolor,text = "Total Grocery")
 gro_lbl.grid(row= 1, column= 0, padx = 18,pady = 5)
 gro_en Entry (F4, bd = 8, relief = GROOVE, textvariable = self.total_grocery) gro_en grid/row = gro_en Entry (pady 2, ipady = 5)
 1.column= 1,ipady 2,ipadx = 5)
 oth_lbl = Label (F4, font = ("times new roman", 15, "bold"), fg = lbl_color, bg
  bs_color, text "Others Total") oth_1b1.grid(row= 2, column=8, padx= 10, pady 5) oth_en = Entry (F4, other) = the color, text ariable = self.total other) = the color, text ariable = the color, text ariab
  bg_com, sellef = GROOVE, textvariable = self.total_other) oth_en.grid(row 2,column= 1,ipady = 2, ipadx bd = 8,relief = GROOVE, textvariable = self.total_other) oth_en.grid(row 2,column= 1,ipady = 2, ipadx
  =5)
  cosmt_1b1 = Label (F4, font = ("times new roman", 15, "bold"), fg = 1b1_color, bg=
   bg_color,text = "Cosmetics Tax")
   cosmt_lbl.grid(row= 0, column=2, padx=30, pady = 8)
   cosmt_en = Entry (F4,bd 8,relief = GROOVE, textvariable = self.tax_cos) cosmt_en.grid(row= 8,column
   grot_1b1 = Label (F4, font ("times new roman", 15, "bold"), fg = 1b1_color, bg=
   grot_lbl.grid(row= 1,column = 2,padx = 38,pady = 5) grot en Entry (F4, bd = 8,relief = GROOVE.
    textvariable = self.tax_groc)
    grot_en.grid(row= 1, column= 3,ipady = 2, ipadx = 5)
     otht 1b1 = Label (F4, font = ("times new roman", 15, "bold"), fg = lbl_color, bg
     otht_1b1.grid(row= 2,column=2, padx = 10, pady = 5)
```

```
F4, bd = 8, relief = GROOVE, textvariable =
of engrid (row = 2, column = 3, ipady = 2, ipadx = 5)
Allax other)
seel bin
uronif4, text
gest", bg
* color.fg
**Color, font=("lucida",12,"bold"), bd = 7, relief = GROOVE, command = self-total)

**Color, font=("lucida",12,"bold"), bd = 7, relief = GROOVE, command = self-total)
Color, "Grid(row= 1,column = 4, ipadx = 20, padx = 30)
pendil btn Button (F4, text "Generate Bill", bg bg_color, fg = = fg_color, font=("lucida", 12, "bold"), bd
genome = GROOVE, command = self.bill_area)
genbil_btn.grid(row= 1, column = 5,ipadx = 20)
dear_btn
Nation(F4, text
 "Clear" bg bg_color,fg
 :fg_color, font=("lucida", 12, "bold"), bd = 7,relief = GROOVE, command = self.clear)
 dear_btn.grid(row= 1,column 6,ipadx = 20, padx = 30)
 exit btn
 Button(F4,text
  "Exit", bg
  tolor, font=("lucida", 12, "bold"), bd = 7, relief = GROOVE, command
  bg_color, fg
  exit_btn.grid(row= 1, column = 7, ipadx = 28)
   = self.exit)
   #Function to get total prices
   def total(self):
    #============Total Cosmetics Prices
    self.total_cosmetics prices = { (self.bath soap.get() ● 40)+
    (self.face cream.get() 148)+
```

(self.face wash.get() 240)+ (self.hair spray.get() 340)+

```
(self.body lotion.get() ● 260)

self.total_cosmetics.set("Rs. "+str(self.total_cosmetics_prices)) self.tax_cos.set("Rs. "+str(round(self.total_cosmetics_prices*0.05))) #=======Total Grocery Prices

self.total grocery prices = (

(self.wheat.get()*100)+

(self.food oil.get() * 180)+
```

```
(self.daal.get() 80)+
(self.rice.get() *80)+
(self_sugar.get() ● 179)
self.total grocery.set("Rs. "+str(self.total_grocery_prices)) self.tax_groc.set("Rs. "+str(round|self.total_grocery_prices))
grocery_prices*0.05)))
#555555=Total Other Prices
self.total other prices ( (self.maza.get() • 20)+
(self.frooti.get() 50)+
(self.coke.get() * 60)+
[self.nimko.get() ● 20)+ (self.biscuits.get() ● 20)
self.total_other.set("Rs. "+str(self.total_other_prices)) self.tax_other.set("Rs.
**str(round(self.total_other_prices 8.85)))
#Function For Text Area
def welcome soft(self):
self.txt.delete('1.0',END)
self.txt.insert(END," Welcome To Iconic Retail\n")
self.txt.insert(END, "\nBill No.: (str(self.c_bill_no.get()))") self.txt.insert(END, "\nCustomer Name:
(str(self.cus_name.get()))")
self.txt.insert(END, "\nPhone No. : (str(self.c_phone.get()))")
self.txt.insert(END, *\n
seif.txt.insert(END,Product
Qty
Price")
self.txt.insert(END, "\n=====
#Function to clear the bill area def clear(self): self.txt.delete("1.0",END)
#Add Product name, qty and price to bill area
def bill_area(self):
 self.welcome soft() if self.bath soap.get() != 0:
 (self.bath soap get())
 self.txt.insert(END, "\nBath
 (self.bath_soap.get() 40)")
 Soap
```

```
if self.face cream.get() = 0:
self.txt.insert(END, "\nFace
Cream
(self.face_cream.get()) if self.face wash.get() != 0:
(self.face_cream.get() * 140)")
self.txt.insert(END, "\nFace
Wash
(self.face_wash.get())
[self.face_wash.get() 240)")
if self.hair_spray.get() = 8:
self.txt.insert(END, "\nHair (self.hair spray.get() * 340)")
Spray
(self.hair_spray.get()) if self.body lotion.get() = 8:
self.txt.insert(END, "\nBody
Lotion
(self.body lotion.get())
 [self.body_lotion.get() 260)")
 if self.wheat.get() I= 0:
 self.txt.insert(END, F"\nWheat
 (self.wheat.get())
 self.wheat.get()* 100)") if self.food oil.get() != 0;
 self.txt.insert(END, "\
 nFood (self.food_oil.get() 180}")
 (self.food oil.get()) if self.daal.get() = 8:
 self.txt.insert(END, "\nDaal
  (self.daal.get())
  elf.daal.get() 80)")
  if self.rice.get() = 0: self.txt.insert(END, "\nRice
  {self.rice.get()}
  elf.rice.get() 80)") if self.sugar.get() != 0:
  self.txt.insert(END, "\nSugar
```

```
(self.sugar.get())
self.sugar.get() • 170)*)
if self.maza.get() != 8: self.txt.insert(END, "\nMaaza
(self.maza.get())
self.maza.get() 20)")
if self.frooti.get() != 0:
self.txt.insert(END, "\nFrooti
(self.frooti.get())
self.frooti.get() 50)")
if self.coke.get() = 8: self.txt.insert(END, "\nCoke
(self.coke.get())
elf.coke.get() ● 50)")
if self.nimko.get() != 0:
self.txt.insert(END,f"\nNimko
(self.nimko.get())
self.nimko.get() 20)")
if self.biscuits.get() != 0: self.txt.insert(END, "\nBiscuits
(self.biscuits.get())
(self.biscuits.get() 28)")
self.txt.insert(END, "\n
self.txt.insert(END, "\n
(self.total_cosmetics_prices+self.total_grocery prices+self.total_other_prices+self.
total_cosmetics_prices
0.05 self.total grocery_prices
 0.85+self.total_other_prices 0.05)")
```

```
#Function to exit def exit(self): self.root.destroy()

#Function To Clear All Fields

root= Tk()

object= Bill App(root)

root.mainloop()
```

## Outputs:

Step 1: Enter customer details, click Enter. Then enter the quantity of the products. Click Total to display bill menu.

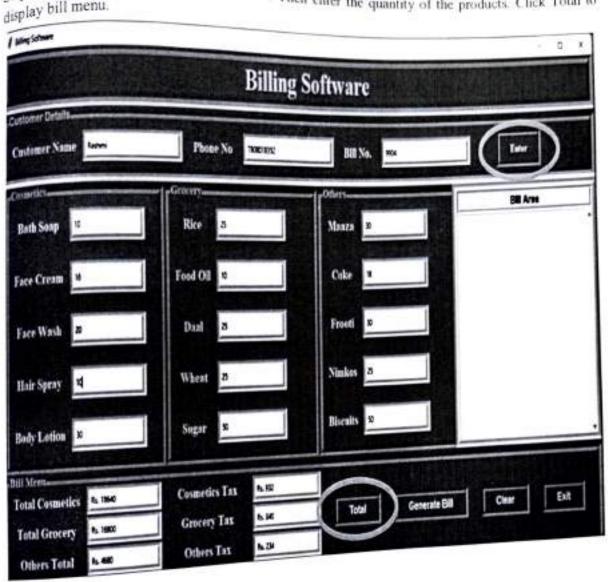


Fig 4

Step 2: Click Generate bill to generate the bill with bill no, and Customer detail. - 0 x **Billing Software Customer Details** Customer Name Phone No NOTHING. Bil No. Counties. Grocery Bill Area Bath Seap Rice Masza Selone to long Senail MII St. : 1916 Customer Sam : Austral Face Cream Food Oil Phone No. : 7808018352 Coke Price der. Froduct 105 10 Beth Josp Face Wash Darl Frooti 16 2240 Bece Creat 1890 20 face Rest 1400 Sair Spray 10 1800 10 Body Letter 1500 25 Wheat Ninkos Mest. Hair Spray 1800 20 Food Call 1000 25 7445 1000 25 Rice 50 6500 Sugar Bisenits Segar **Body Lotion** 30 400 Seaso 1300 Propts Bill Metn-N. EU Cosmetics Tax F1 1860 **Total Cosmetics** Generate Bill Total h. 80 Grecery Tax **Total Grocery** 16.2M Others Tax Others Total

Fig 5

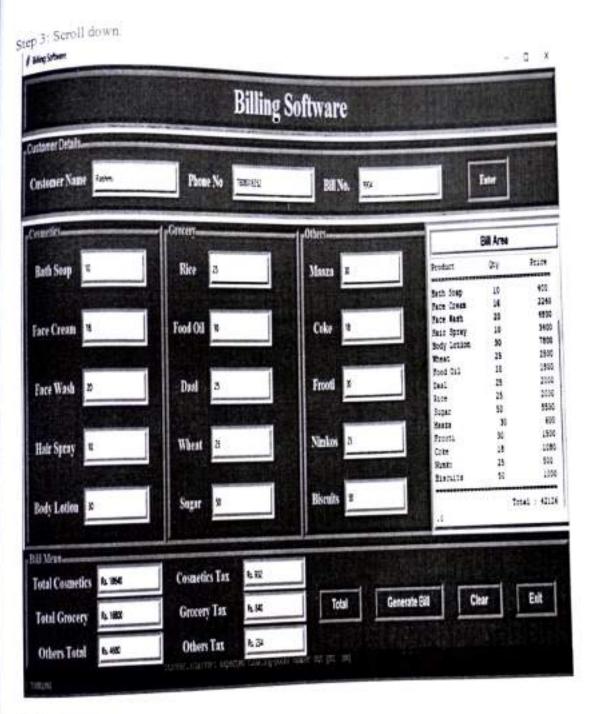


Fig 6

## CONCLUSION AND FUTURE SCOPE

#### Conclusion

The urge for the digital bill management systems is increasing day by day. Billing System Using Python is a perfect solution for this. Through this the ease of access and flexibility of the day to day works in the store is made simpler. The features such as bill number, CGST and SGST make this software user friendly. Both the management side and worker site can manage the data easily using such a system. It is very good and reliable system which can be in corporate to the chain of stores so can easily maintained and addressed.

#### **Future Scope**

In future, this application can be updated with some more items. Many other latest features will be added. Project will surely be enhanced with respect to looks and appearance and also as per user requirements. Many more functionalities will be added. Some enhancement can also be done with calculator. For now, this application generates the bill but with respect to future application it will be enhanced that it will also print a bill. It can also be used on a large scale. Many more modification can do with menu or prices or tax as well. It will be easy to use and bug free to all future or upcoming users. This can also be enhanced in future as per customer requirements. Many more features can be added. This will surely help users instead of making a bill manually.

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## **ECONOMICS**



#### 6th semester projects done by stydents(2022-23 session)

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## KAZI NAZRUL UNIVERSITY ASANSOL

TITLE: GENDER INEQUALITY IN LABOUR FORCE
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## **Environmental Studies**





## GLOBAL ENVIRONMENTAL ISSUES



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#### ACKNOWLEDGEMENT

I would like to impress my special thanks of gratitude to my Professor Miss MANJULIKA, who gave the He golden apportunity to do this wonderful broject Excisonmental Studies on "CILOBAL ENVIRONMENTAL ISSUES," who also helped me in completing my project.
I come to know about the so many new things, I come to know about the so many new things, I come to know about the so many new things, I come to know about the so many new things, who helped me a lot in finalizing this project within the limited time frame.

- SURAJ ROKA
CHEMISTRY (HONOURS)

18+ SEMESTER



#### INTRODUCTION

An introduction to belobal Envisonmental Issues represents a comprehensive of stimulating introduction to the key envisonmental issues foresently threatening our debat envisonment. Major global envisonmental issues are brought into focus. Emploration of the evalution of the evalution of the earth's natural systems (hydrosphere, biosphere, geosphere) provided on essential understanding of the scientific concepts, processes and historical background on envisonmental issues.

Contemborary socioeconomics, cultural and political

Contemporary socioeconomics, cultural and political considerations are explaned and important conceptual approaches such as brain hypothesis and Chaos Theory are introduced. Human import and management of the natural environmental, and concerns for maintaining biodiversity are emphasized throughout.

The scopid growth population and economic development is leading whomization and industrialization, expansion and massive intensification of agriculture the

Mojor envisonmental issues one forest and agricultural Mojor envisonmental issues one forest and agricultural degradation of land, resource depletion (water, mineral, forest, sonal, reach etc) envisonmental degradation, forest, sonal, reach etc) envisonmental degradation, forest, sonal, reach etc) envisonmental degradation, ecosystem, livelihood security of the foor.

It is estimated that the country's population will increase to about 1.26 billion by the year 2026. The Projected population indicates that India will be the first mass populous country in the would and china will be ranking second in the year 2050. India having 181/2 of the world's population on 2.4% of world's total area has greatly increased the foressure on its natural resources. Water short ages, soil exhaustion and erasion, deferestration, air and water pollution, afflicts many wears. The condition of the environment is a would wide issue Air and water pollution do not recognize borders; poer sail condition in one nation may reduce another country's food safety and at the same time, different problems. One trey distinction is between the envisonmental threats foced by developed nations, such as the United States and western European sountiles, and developing nations such as India and Menico. Most agree that these notions may be disimilar vises, but debate remains over whether the solution to their problems are unique as well. The environmental problems foced by developed nations are largely the result of their economic strengths and higher standards of living. Overconsumption is cited by many, the envisonmental crises foced are result of poorty

#### GLOBAL CHANGE SCENARIOS

A brief summary of the status of global climate change predictions provided a content for subsequent discussions. We ruly primarily on the work of the Intergovernal Panel on Climate Change (78), and on Mac Cracken et all (106), who combine discussions of model based predictions and poleoclimate records. This is a rapidly developing field. Athough the detailed fredictions derived from general circulation models are uncertain and subject to surrising, there can be little doubt in a qualitative sense that the increased and still-increasing concentration of radiatively active gases in the atmosphere will result in significant climate change of some sout. The net inchease will amount to about 10 by 2030 and 30 by 2090 Land surfaces will worm faster than the global meon, specially in winter. Present confidence in regional climate change productions is low. In the occamic tropics, the was of the most interests to this review, the productive ability of the general cisculations model is highly questionable; both between model agreement and calibration against present conditions are poor. Some models predict tropical sea-surface temperature increase of 1-3°C, but there is a widespread debate about possible feedbook mechanism that might either stabilize values in the victing of 30°-31°C or produce positive feedback order the wormest part of ocean.



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#### GLOBAL ENVIRONMENTAL MAJOR ISSUES

One of the brimary couses of environmental degradation in a country could be attributed to respire growth of population, which adversely affects the natural resources and environment The upousing population and the envisonmental deterioration foce the challenge of substoinable development. The existence or the obsence of forourable natural resources can facilitate or retored the process of socio economic development The three basic demographic factors of boths (ratality), deaths (mortality) and human migration and immigration produce changes in population, size, composition, distribution and these changes vaise a number of important question of Serious envisormental calomilies. These includes keavy pressure on land, land degradation, forests, hobital destruction and loss of biodiversity. . Changing consumption pattern has led to resing demand for energy. The final outcomes of this are air pollution, global warming, climate change, water scarcity and water follution. Environmental issues in India include various natural hazards, particularly cyclones of annual monsoon floods, population growth, increasing individual consumption, industrialization, infrastructional. development, poor ogralbural practises, and resources mal-distribution have led to substantial human transformation of India's natural environment.

It is also estimated that between 4.7 and 12 billion has of topsail are lost annually from sail erasion. From 1947 to 2002, average annual per capita water availability declined by almost 40% of 1882 cubic meters and over explaitation of groundwater is problematic in the states of Haryona, Punjab and Uttasi Poadesh, Forest area cover 18.34% of Indiais geographic area (637000 lm2). Nearly half of the country's forest cover is found in the states of Madhya Poadesh (20.7") and the seven states of the northeast howesting for fivel wood and the exponsion of agricultural land. As estimated 60% of cultivated land suffers from sail erosion, water Logging & salinity These trends, combined with including industrial and mater wehicle pollution author, have led to atmospheric temperature increases, shifting precipitation patterns, . and declining intervals of drought recurrence in many weas. The Indian Agriculture Research of Powati has estimated that a 3°C rise in temperature will ruse in a 15 to 20 10 loss of annual what population These are substainable problems for a nation with such a large population depending upon a productivity of primary resources and whose economic scales heavily on industrial growth.



#### GLOBAL ENVIRONMENTAL PROBLEMS

At the down of the third millennium, a powerful and complex web of information is contributing to unprecedented global trends in environmental degradation These forces include Propied glabolization and unbonization pervosive poverty, unsustainable consumption potterns and population growth. Often serving the compound the effects and intensity of the envisonmental challenges, require concerted responses on the port of the International community. Colobal climate changes, the depletion of the ozone layer, desertification, deforestation, The loss of the plant is biological diversity and the transfoundary movements of hazordous wastes and chemicals are all envisonmental problems that touch every nation and adversaly affect the lives and health of their populations As with other envisonment -related challenges, children are disproportionely vulnerable to and suffer most from the effects of these global trends. Morever, all of these global Envisonmental trends have long term effects on people and societies and are either difficult or impossible to reverse over the period of one generation. Unless, effective globalization are taken early, we will end up plundering our children heritage and future in an unprecendented way

These are substantial problems for a nation with such a longe population depending on the productivity of primary resources and whose economic growth realies heavily on industrial growth. Civil conflicts involving natural dresources - most notably forests and enoble land-have occured in eastern and northern states.

The poor envisonmental condition of communist nation is often cited by these observers as evidence of the inability of government regulations to consowe the envisonment. They believe that company are more likely to be mativated by the quest for profit than a desire to preserve the envisonment.

# PROGRESS IN GLOBAL ENVIRONMENTAL CHANGE

Since 1990 global population has glown from roughly 5.3 to 6.8 billion and substained global economic quowth occompained by total and per capita increase in consumption in many parts of the world, not least in Briggel, Russia, India and China. However our world remains driven by differences in access to resources and fer capita consumption both between and within countries, capitals. A review of the most highly cited popers journal shows significant contributions across five broad themes: the drivers and impacts of systemic and cumulative change, ocross cutting concepts such as vulnerability and resilience approaches to management, control and policy, and different perspectives on climate change. The scientific community has cleared documented and quantified global envisormental change with increasing forecision and improved models to understand the future consequences of our actions, although large uncertainities oumain. The community has also developed tooks to quantify our footprints and the effects of our lifestyle beyond our immediate Surroundings (Rees, 1992; Hockstra and Hung, 2005) interconnectedness across scales, in both biophysical and socioeconomic terms, which as Rifkin (2009) suggest may cultivate increased empathy. But it is perhaps at the interface between individual and collective between individual and collective between that research has progressed the least but where there is the greatest potential to address the challenges we understand so well.

Inderdiscipilinary research on global envisormental change must engage further with psychological and behavioural sciences and ethics to understand metivation and behavioral changes in its socio-economic and political content and the forms of institutions and governance that can faster new technologies and ideas of progress.

# ENVIRONMENTAL ISSUES AT

- \* Depletion of natural resources
- \* Water Sollution
- \* Also pollution
- \* bround Water Ballution
- \* Jercie chemicals and soil pollution
- \* Ozone loyer depletion
- \* belobal warming
- \* Loss of blo-diversity
- \* Extinction of wildlife and loss of natural habitat
- \* Nuclear unstes and readiation issues.

#### GLOBAL ENVIRONMENTAL ISSUES LIST

If asked what are the global environmental issues that the planet foces today, most people out there wouldn't be able to go beyond global warring and energy crisis. These people are not aware of the fact that there are several other issues of global concern, each of which is equally hazardous. These people more importantly, all these issues are related with each other by some as the other way, and hence, tackling them one by one has just become difficult.



#### CLIMATE CHANGE

Climate change has become more than obvious over the past decades, with nine years of the decade making it to the list of hottest years the planet has ever witnessed The rise in temperature has also ensured that the equations on the planet have gone for a toss. Some of the most obvious signs of this include. is regularity in wether , forequent storms, meeting glociers, rising level of sea etc. tricing by the prevailing conditions, it is not difficult to antiopate that the planet is heading for a dromatic climate change, some where in near future. The seemingly ruse of mean temperature is already showing adverse effects. One of the consequences have been more a rise in the global sea level. The world's emission of green house gases, notably Carbon dioxide will double ar triple fore-industrial levels expected to increase by 1.4 to 5.8 degrees Celsius from 1990 to 2100. The refection of climate change will disproportionally affect those who are least able to adapt - the poor and vulnerable section of society, including children. It is widely recognised that climate change by alternating local weather patterns and by disturbing life supporting natural system and songe of health effect is diverse.

#### CONSERVATION OF SPECIES

Yet another global entrisonmental issue, species conservation basically deals with conservation of flora and found, in order to cust the excinction of species. Extinction of a single species of plant on animal result in a dramatic inbalance in the ecosystem, as a number of other species defendent on it directly are also affected. Over the last century on so, several plants and animals species have become entiret thus resulting in a major lass for the biodiversity of the planet. Unfortunately, despite the affect put into conservation by organization and activists, their work can easily be undermined by those who have other interests. This occurs, for example, from habitat destruction, illegal pooching, to influencing or monipulating lows designed to protect species.



#### ENERGY CRISIS

8

The fact that we are largely dependent on fassil fuels like for our fuels and energy requirements has made us significantly vulnerable to reverse energy crisis. Though, quite a few renewable energy sources have been identified, none of them have been promising enough when it comes to replacement fossil Jules as the major source of energy for mankind. Attempts to top the full potential of these sources are in progress, and our future by and large depends on these attempts, as Jossil fuels are on the average of exhaustion. Energy princes are have been rising since 2021 because of the trapid economic recovery, weather conditions in various parts of the world, mointenance work that had been delayed by the pandemic, and earlier decision by oil and gas componies and employing countries to reduce investments. Oil prices also initially soured as international trade routes were reconfigured by the United States, many Europen countries soid they would no longer buy Russian oil

## EXPLORATION OF NATURAL RESOURCES

Our greed for more has left us empty handed in terms of matural resources in several facts of the world. Several human vactivities, including the likes of mining, ogriculture, fishing, etc has resulted in diastic deguadation of our natural resources. While mining, and sogniculture have tolggered large - scale deforestration, over fishing has only resulted in the reduction of population of marine creatures including the inhabiting of the planet of the trend continues, we are bound to exhaust those natural resources on which we are dependent and thus dig our own graves. During the 20th century, energy consumption rapidly increased. Totally, about 80% of the world energy consumption is sustained by the entraction of Jossil fuels, which consists of oil, coal, and natural gas

#### LAND USE

Elobal envisonmental problems pertaining to the land are not just restricted to hophazond worste disposal on large-scale deforestration, but also to improper use of land. Natural envisonment is being districted but also to improper to make way for wilson Sprowl which is indiscetly resulting in loss of habitat for several species. Forgmentation of land owing to construction is also a major factor when it comes to improper land use. All these factors together result in several problems, including soil existion, degradation of dand and desertification. A central challenge for substainability is how to preserve forest ecosystem and the service that they provide us while enhancing food production. A few countries have managed to alond use tromsition over the recent decades that Simultaneously increased their forest cover and agricultural production.



12.

#### NUCLEAR ISSUES

Nuclear power does have high potential, but the problems associated with it we no less. Radioactive waste from nuclear power plants is one of the major problems we are likely to foce, especially if safety regulations are not followed properly. Charabyl tragedy has set on example of how nuclear waste can lead to disaster for mon kind, and no one would like to see another Chernologe hoppening It doesn't end here on the treat of some nation diverting it's nuclear power to produce nuclear assend is always borning over the monkind. And it won't take on Einstein to imagine the amount of damage these nuclear weapons would cause. Countries may have a number of motives for deploying nuclear power plants, including a lock of indigenous energy resources, a desire for energy indépendence, and a goal to limit greenhouse gas emissions by using a carbon-face source of electricity.

#### OVER POPULATION

Yet another major global envisonmental issue is overpopulation. As the population of world continues to soon at an alarming rate, the pressure on the resources of the planet is increasing. These problems associated with overbopulation ronge from food and water crisis to lock of space for natural burial. Owerpopulation also results in various others demographic hazards. Incessant population growth will not just visualt in depletion of natural resources, but will also put more pressure on the economy. After all substaining a huge population requires quite a mammath effort for a nation, as for as finance is concerned. Overcrowding leads to further demand for limited resources and This, in twon, can lead to move conflict and waryare. As human seeks out more resources, they take over land that was once the habitat of other species leading to huge biodiversity loss

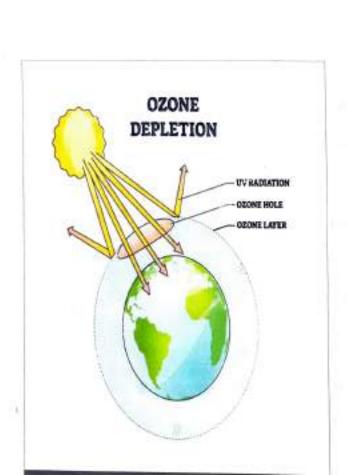
#### POLLUTION

This is perhaps the most obvious, yet most ignored global envisonmental usue in the list of envisonmental problems. The term 'population' in itself have several other aspects, prominent ones among which include air pollution, water pollution, and land pollution. On one hand our pollution can be attributed to the large amount of assistan dionide pumped into the atmosphere by industries and wehicles, water pollution and land pollution is caused as a result of waste disposal from factories, oil carrying vessels etc. Basically, monkind is to be blamed for this issue as our octivities tend to hamper the environment at an alarming rate. In this trend continues, we will be very soon left without any fresh air to breathe, and clean water to dint.



#### WASTE MANAGEMENT

As population increases, human activities increases, which eventually increases the amount of waste produced. This worste doesn't just include those harmful gases let out in the atmosphere ar toxic waste violensed in water bodies, but also include nuclear waste, e-waste, medical waste and even the waste from our homes. With limited area available on the planet, and most of it being inhabited by us, we are left with no space to dispose this waste. The rate at which this waste is produced is for more than the rate at which it is being treated, and this just results in piling up of worste, which eventually pollutes the Envisonment. However, the envisonmental issues the planet foces today are not just restricted. Several issues, including problems due to construction of doms, genetic pollution nonotextuology etc. Due surfacing every other day.



#### OZONE LAYER DEPLETION

Ozone in the atmosphere is exper layer, the stratosphere, protects humans, animals and plants from the domaging effects of the UV-radiation from the Sun without it, all life on earth would come to an end However, the use of charoflucrocarbons (CFCs) and other Dzone - Depleting Substance (ODS) are slowly eating away at the startespheric ozone layer, creating a major potential health hazard. While the concentrations of ODS in the lower atmosphere peaked in about 1994 and is now slowly declining due to worldwide efforts to phase out the rise of CFC is and other damaging substances, significant health threats relating to ozone depletion persist. Skin Concer is the most warvisome impact of ozone depletion. Enposure to sun's harmful illowidet Light (UV) may damage children's skin. The international response to this issue is emborded the Convention of Protection of the Ozone layer, which was concluded in Wienna in 1985. Production of the most domograble oyone-depletion substances was eliminated, expect phase out by 2010 in developing countries.

#### LOSS OF BIODIVERSITY

One hundred and fifty years ago, the Native American leader, Chief Seattle, is reported to have said we humans are but a threat in the web of life. He added whatever we do to the web, "we do to ourselves". The web is unraweling at an increasing rate.

Both Hants and animals species have disappearing at

Both fronts and animals species have disappearing at 50 to 700 times the natural reste, due to such foctors as the large scale clearing and burning of forests, over - harvesting of plants and animals, indiscriminate use of pesticides, draining and filing of wetlands, destructive fishing proctices, our pollution and the conservation of wild lands to agricultural and when uses.

Recent studies suggest that this high rate of entination will occulerate even foster, taking an increasing number of living plants and onimals away from us forever. This species loss and ecosystem disruption is cousing a complex range of circumstances with consequences to human health.

#### GLOBAL WARMING

telobal warming is the unusually stapid increase in Earth's average surface temperature over the past century primarily due to the greenhouse goses released by people burning fossil fuels. Aschneological sites and some buildings have survived at least two periods of global warming and interviewing cold periods. With international Scientific evidence mounting and the reliability of future climate predictions increasing Heritage commisioned research to gother evidence on climate change as a possible cause of envisonmental instability of cultural heritage and to inform present and future planning. According to the report of WTO International Organization 2007 the following things are taken place in the world and affecting the national disaster. The biggest ice caps in the arctic region, the word hunt see sheff broke into Fragments as a result of global warming

#### ROLE OF WWF

WWF. India is one of the largest conscruation organization engaged in wildlife and notice conscruation in the country. A part of WWF International the organization has made its presence felt through a substained effort and not only towards notice and wildlife conservation, but bensitizing people by creating awareness through capacity building and ownsommental legal activism. A challenging and constructive, science based organization alwF International addresses issues like the survival of species and habitate, climate change and envisonmental education.

#### CONCLUSION

Global dimate change is causing these area to experience on increasingly sparse and erratic risinfall pattern and a huge Therned dry season, affecting the divelifieds of thousands of villagers, some area are also focing batter shortoges. People are becoming aware of sake of global warming, so they cultivate more trees, blonding mongrove forests by the sites of the coastal areas and reduce the usage of plastics. They have showed more than 12 million seeds of half a million of blanks. Planting trees becomes carbon emissions and pollution. There are organization that will help you offset your carbon footbrint. The deforestration comes in a close second in causes for global warming. The vorious thenomenon that can be said to contribute to the suble include startaspheric ozone depletion, global warming, acid aerosal formation, desertification and deforestration.

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# **Political Science**

# BIDHAN CHANDRA COLLEGE

NAAC ACCREDITED

AFFILIATED TO KAZI NAZRUL ISLAM UNIVERSITY



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SESSION: 2020-21

ROLL NO:1032006121034034

MOBILE NO:7430913627

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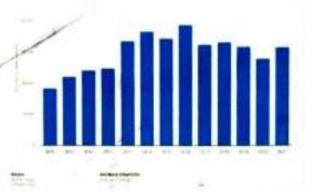
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#### **PROJECT**

#### UNDER THE SUPERVISION OF DR. AMRITA BANERJEE

Folial regelber of rape cases reported in both hore 2005 to 2021



TOPIC : A STUDY ON THE STATUS OF RAPE CASES IN INDIA

SUBMITTED BY:

#### SALMAN KHAN

**SEMESTER-VI** 

College Roll No.: 22

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Course Code : BAHPLSC602

# DEPARTMENT OF POLITICAL SCIENCE BIDHAN CHANDRA COLLEGE ASANSOL

(Under Kazi Nazrul University)

Page No./ Date./

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Introduction

Rafe, generally Known as balatkar is a itself. Chimina effects deepest No Single because person who

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