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**NAAC 4<sup>th</sup> CYCLE**





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# Baselius College

(NAAC Reaccredited @ A Grade (with CGPA 3.11) & Fully Accredited by IAO)

Kottayam, Kerala - 686 001

A Post Graduate Institution of the Orthodox Church with faculties of  
Arts, Science and Commerce, affiliated to Mahatma Gandhi University

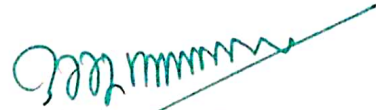
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3.3.2 Number of research papers per teachers in the Journals notified on UGC website /Scopus Indexed/ Web of Science/Others during the last five years

## Consolidated number of Research Papers from 2016-21

Sl.No.	Year	Total number of Research papers
1	2016-17	26
2	2017-18	24
3	2018-19	22
4	2019-20	30
5	2020-21	26



  
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# Consolidated list of Research Papers

## 3.3.2

2017-18



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## List of Research Papers during 2017-18

Sl. No.	Title of the Paper	Name of the authors	Department	Name of the journal	Link to the paper
1	Microhabitat diversity and distribution of Angiosperms in selected granite Hillocks of Palghat Gap of Southern Western Ghats	Dr. Arabhi P.	Botany	Trends in Biosciences	<a href="https://www.cabdirect.org/cabdirect/abstract/20203075404">https://www.cabdirect.org/cabdirect/abstract/20203075404</a>
2	<i>Sonerila victoriae</i> , a new species of Melastomataceae from Southern Western Ghats, India	Dr. Arabhi P.	Botany	Phytotaxa	<a href="https://www.biotaxa.org/Phytotaxa/article/view/phytotaxa.324.2.7/0">https://www.biotaxa.org/Phytotaxa/article/view/phytotaxa.324.2.7/0</a>
3	Taxonomy, Diversity and Distribution of the Genus Cucumis L. in India	Dr Krishnaraj M.V	Botany	Indian Journal Plant Genetic Resources	<a href="https://www.indianjournals.com/ijor.aspx?target=ijor:ijpgr&amp;volume=31&amp;issue=1&amp;article=012">https://www.indianjournals.com/ijor.aspx?target=ijor:ijpgr&amp;volume=31&amp;issue=1&amp;article=012</a>
4	Two Lectotypifications in <i>Argyreia</i> (Convolvulaceae)	Dr Krishnaraj M.V	Botany	Journal of Japanese Botany	<a href="http://www.jjbotany.com/pdf/JJB93-6_389-393_abstract.pdf">http://www.jjbotany.com/pdf/JJB93-6_389-393_abstract.pdf</a>
5	Performance Evaluation of Public sector banks based on Camel Methodology	Dr. Manoj Narayanan K S	Commerce	IJETSR	<a href="http://www.ijetsr.com/images/short_pdf/1517753409_1575-1585-oitm841_ijetsr.pdf">http://www.ijetsr.com/images/short_pdf/1517753409_1575-1585-oitm841_ijetsr.pdf</a>
6	Commodity Derivatives Market in India: Evolution, Development and Growth-	Dr. Manoj Narayanan K S	Commerce	International Journal Of Engineering Technology Science And Research	<a href="http://www.ijetsr.com/images/short_pdf/1504365767_230-236-ieteh983_ijetsr.pdf">http://www.ijetsr.com/images/short_pdf/1504365767_230-236-ieteh983_ijetsr.pdf</a>



  
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7	"ASHA a medico-social initiative"	Tissy Eruthickal	Commerce	Emperor International Journal of Finance and Management Research	<a href="https://1library.net/document/y86ee74q-asha-a-medico-social-initiative.html">https://1library.net/document/y86ee74q-asha-a-medico-social-initiative.html</a>
8	Writing Food/ Writing Souls: Reading Alphabet Soup for Lovers	Dr. Jyothimol P.	English	IJELLH	<a href="https://www.ijellh.com/OJS/index.php/OJS/article/view/2329">https://www.ijellh.com/OJS/index.php/OJS/article/view/2329</a>
9	Poppied Lives off/on Shore: A Barthesian Reading of Amitav Ghosh's Sea of Poppies	Vidya Merlin Varghese	English	IJRHAL	<a href="https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3095475">https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3095475</a>
10	The Pain through Laughter: A Representation of Holocaust Trauma	Meera Elizabeth James	English	RJELAL	<a href="http://www.rjelal.com/5.3.17b/739-742%20MEERA%20ELIZABETH%20JAMES.pdf">http://www.rjelal.com/5.3.17b/739-742%20MEERA%20ELIZABETH%20JAMES.pdf</a>
11	Concentration, Competition, Profitability and performance efficiency of Select Life Insurers in Kerala	Dr.Shaju M J	Economics	International Journal Of Research In Management , economics and commerce	<a href="https://www.academia.edu/37452769/Concentration_Competition_Profitability_and_Performance_Efficiency_of_Select_Life_Insurers_in_Kerala">https://www.academia.edu/37452769/Concentration_Competition_Profitability_and_Performance_Efficiency_of_Select_Life_Insurers_in_Kerala</a>
12	Oil price migration nexus in India in 'South Asia research'.	Dr. Raju John	Economics	Sage publications	<a href="https://journals.sagepub.com/doi/10.1177/0262728017745384">https://journals.sagepub.com/doi/10.1177/0262728017745384</a>
13	Effect of viscosity on the far field diffraction pattern of spatial self phase modulation	Dr.Nibu A.George, Anisha Mary Mathew, Ambika D	Physics	Optica Applicata	<a href="http://opticaapplicata.pwr.edu.pl/files/pdf/2017/no4/optappl_4704p591.pdf">http://opticaapplicata.pwr.edu.pl/files/pdf/2017/no4/optappl_4704p591.pdf</a>
14	Enhancement of non-linear optical properties of BaTiO3 nanoparticles by the addition of silver seeds.	Dr. Nibu A.George	Physics	Optic express	<a href="https://www.osapublishing.org/oe/fulltext.cfm?uri=oe-25-15-18056&amp;id=369993">https://www.osapublishing.org/oe/fulltext.cfm?uri=oe-25-15-18056&amp;id=369993</a>



  
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15	Emotional leadership styles: role of the coach and the team leader in district catagories of sports	Dr.Biju Thomas	Physical Education	Journal of Advances and Scholarly Researches in Allied Education	<a href="http://ignited.in/File_upload/Download_Article/JASRAE_ISSUE_2_VOL_13_232057.pdf">http://ignited.in/File_upload/Download_Article/JASRAE_ISSUE_2_VOL_13_232057.pdf</a>
16	Magda as Narrator: Counter/Demythologization in J.M. Coetzee's in the Heart of the Country	Dr. Jyothimol P.	English	RJELAL	<a href="http://www.rjelal.com/5.3.17a/536-539%20Dr.%20JYOTHIMOL.P.pdf">http://www.rjelal.com/5.3.17a/536-539%20Dr.%20JYOTHIMOL.P.pdf</a>
17	Growth hormone doping -disturbing trends for youth athletes	Dr.Biju Thomas	Physical Education	Carmel Graphics	link to the article not available
18	A cross sectional study of Antropometric growth pattern of soccer players of different age groups	Dr.Biju Thomas	Physical Education	Carmel Graphics	link to the article not available
19	Preparation and Characterisation of Biosorbents from Agricultural Waste	Dr. Suma Bino Thomas	Chemistry	Baselius Researcher	link to the article not available
20	Surface Characterization and Catalytic Activity of Zinc-Alumina Mixed Oxides.	Dr. Jalaja J Malayan	Chemistry	Baselius Researcher	link to the article not available
21	Synthesis, Characterisation & Antibacterial Studies of Copper (II) Mixed Ligand complexes of pyrrolidineDithiocarbamate& Schiff base	Jinu Mathew	Chemistry	International Journal of Pharmaceutical Biological & Chemical Sciences (IJPBCS)	Link to the article is not available



  
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22	A Study on the stress management among employees at Travancore Cements Nattakom, Kottayam	Devika R.	Commerce	Baselius Researcher	link to the article not available
23	Viral Marketing: The marketing strategy of the internet age	Mishel Elizabeth Jacob	Commerce	Baselius Researcher	link to the article not available
24	Social Inclusion of Transgenders: Strategies and Issues	Meera Elizabeth James	English	Roots	link to the article not available



  
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# **Supporting documents of the Research Papers without hyperlink to Journals**



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# GROWTH HORMONE DOPING- DISTURBING TRENDS FOR YOUTH ATHLETES

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## ABSTRACT

In many parts of the world today, sports competitions are the vehicle for the fierce quest to win, to be the best. Athletes will do anything to win whether that be cheating or taking steroids in order to excel in games. If many people already use steroids why not make them legal and let people take them at their own risk? Or perhaps do you think steroids and drugs should stay illegal because they have harmful side effects and promote an unfair advantage in sports? With the growing concern over steroids and drug use in our country, we must look at what is really best for the future of our players and the spirit of competition.

**Key Terms:** Growth Hormone Doping, Steroids.

## Introduction

In simple words, a drug is a chemical substance that, when absorbed into the body, can alter normal bodily function. Many drugs have been banned in sport if they are deemed to provide an unfair advantage, pose a health risk, or are seen to violate the 'spirit of sport'. The use of banned drugs by athletes is referred to as 'doping'. The International Olympic Committee (IOC), and more recently, the World Anti Doping Agency (WADA) have been leading the way in the battle against drugs in sports.

Coupled with good nutrition and good health habits, many youth commit to the accepted sports practice of training hard, playing hard. Yet, in order to reach the demands of new competitive levels and greater athletic achievements, disturbing trends for youth athletes are emerging in the form of growth hormone (GH) doping.

## The Truth About Youth and Performance Enhancing Drugs

The youth sports population is often overlooked when discussing performance-enhancing drugs, but it should not be. According to studies conducted by clinical paediatricians, four to twelve percent of high school boys and three percentages of high school girls have tried some form of performance Enhancing Drug (PED). Those statistics continue to rise every year. Of the several varieties of PED, growth hormone (GH) doping is becoming increasingly popular, and unfortunately, more readily available to youth.

GH is naturally occurring hormone, also known as human growth hormone or somatotropin. It is a protein produced by the anterior pituitary gland and secreted into the bloodstream. It is produced in response to chemical messages sent from the hypothalamus of the brain, to which the pituitary gland is attached.



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# A CROSS-SECTIONAL STUDY OF ANTHROPOMETRIC GROWTH PATTERN OF SOCCER PLAYERS OF DIFFERENT AGE GROUPS

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**Dr. Suma Joseph**

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## ABSTRACT

As a part of spotting talent along with the pattern of growth among soccer players, the scholar intend to test various anthropometric variables so as to find a clear cut growth pattern among different age groups. Sixty male soccer players who have been playing soccer for the last three years were the subjects in this study. The age of the subjects were ranged from twelve to twenty two years and were the students of schools and colleges under Koothattukulam Municipality. Following anthropometric measurements, namely, weight, standing height, sitting height, Trunk length, Leg length, Foreleg length, Thigh length, Foot length, Calf girth and Thigh girth were the criterion measures for this study. For finding out the significance of difference of means among the various age group of soccer players, an analysis of variance (F ratio) was used which was followed by L.S.D. test of post hoc comparisons to determine the significance of difference between the paired means. Significant differences were found between the means of soccer players of different age groups in the following variables namely weight, standing height, calf girth, thigh girth, leg length, and sitting height. But there were no significant difference between 16-18 years age group and 20-22 years age groups in the variables namely, foot length, fore leg length, thigh length, and trunk length.

**Key Terms:** Anthropometric Growth Pattern, Soccer Players

## Introduction

The present renewed emphasis on physical fitness and testing of physical abilities has raised the question of the most appropriate basis for grouping of students and for the establishment of norms. Age and sex are most frequently used as they are readily available and there are obvious age changes and sex differences in some physical performances. Height, weight and maturity have long been accepted as important factors in certain type of performances. Besides taking age, height and weight of the students into consideration for classification purpose, the trend now a days is to take different length, width, girth and body composition variables along with motor components to determine individual's sustainability in a particular game. As a part of spotting talent along with the pattern of growth among soccer players, the scholar intend to test various anthropometric variables so as to find a clear cut growth pattern among different age groups.



April 1, 2017 ▶ Vol: 5 ▶ Issue: 1 ▶ ISSN 2320 - 7299: CARMEL GRAPHICS 81

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## Preparation and Characterisation of Biosorbents from Agricultural Waste

SUMA BINO THOMAS,

AMRITHA MINNU K

### ABSTRACT

Industrial, agricultural, and domestic activities of humans have affected the environmental system, resulting in drastic problems such as global warming and the generation of wastewater containing high concentration of pollutants. As water of good quality is a precious commodity and available in limited amounts, it has become highly imperative to treat wastewater for removal of pollutants. In addition, the rapid modernization of society has also led to the generation of huge amount of materials of little value that have no fruitful use. Such materials are generally considered as waste, and their disposal is a problem. The utilization of all such materials as low cost adsorbents for the treatment of wastewater may make them of some value. An effort has been made to study the potential of four different agricultural wastes like egg shell, passion fruit peel, peanut shell and rice husk powder as a low cost adsorbent for methylene blue removal. This study investigates the effectiveness of adsorptive removal of methylene blue from simulated wastewater as a function of their structural parameters.

**Keywords:** biosorbents, adsorption, adsorbent, methylene blue, egg shell, passion fruit peel, peanut shell, rice husk

### EXPERIMENTAL

#### 1. MATERIALS

All the required reagents used throughout the project were A.R. grade and procured from Nice and Merck chemicals. The adsorbate selected for the adsorption studies is Methylene Blue (MB) dye procured from Merck chemicals. Stock solution of the dye was prepared by weighing out the pure powder form dye. Four different agricultural wastes



## Surface Characterization and Catalytic Activity of Zinc-Alumina Mixed Oxides

AKHILA BINNY

JALAJA J. MALAYAN

### ABSTRACT

Zinc-Alumina mixed oxides of different composition were prepared by co-precipitation from their nitrate solutions. Samples of pure  $\text{Al}_2\text{O}_3$  and  $\text{ZnO}$  were prepared by hydroxide method. These metal oxides are characterized using XRD, SEM and IR data. Oppenauer oxidation reaction was studied using these metal oxides as catalyst. The Product analysis was carried out using TLC, GCMS and IR.

**Key Words:** Zinc-Alumina Mixed Oxides, Oppenauer Oxidation, Meerwein Ponndorf-Verley reduction X-ray Diffraction, SEM Micrographs, GCMS.

### INTRODUCTION

Metal oxides play a very important role in many areas of chemistry, physics and materials science. A mixed oxide is an oxide that contains more than one chemical element or cations of a single element in several states of oxidation. The Oppenauer oxidation over samaria alumina mixed oxides were reported [1]. In 1937 Oppenauer showed that unsolvated steroid alcohols could be oxidised to the corresponding ketone in excellent yields through the use of aluminium t-butoxide in the presence of a large amount of acetone, that compound functioning as the hydrogen acceptor and the large excess serving to shift the equilibrium in the desired direction [2]. In view of the reversible nature of the reaction, many statements as to the mechanism of the Meerwein Ponndorf-Verley reduction [3] are equally applicable to the oppenauer oxidation. Activation of the alcoholic hydrogen atom by aluminium resulting in hydrogen bonding has also been proposed by Woodward et al [4].





## SYNTHESIS, CHARACTERISATION AND ANTIBACTERIAL STUDIES OF COPPER(II) MIXED-LIGAND COMPLEXES OF PYRROLIDINE DITHIOCARBAMATE AND SCHIFF BASE

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### ABSTRACT

Three mixed ligand complexes of Copper (II) ion containing Schiff base and pyrrolidinedithiocarbamate bases were prepared. The complexes were characterized with electronic and infrared spectroscopy, conductance measurement, and elemental analysis. Resulting analytical data indicates that the Schiff base and dithiocarbamate groups are coordinated to the Copper ion in a bidentate fashion. A tentative square planar geometry may be assigned to all the complexes. The complexes were proposed to have a general formula of  $[Cu(pyrrdtc)SB]$ , where SB = Schiff base and pyrrdtc = pyrrolidine dithiocarbamate. The metal complexes were screened against gram positive bacteria (*Streptococcus pneumoniae* and *Staphylococcus aureus*) and gram-negative bacteria (*Klebsiella subtilis* and *Escherichia coli*) using Agar diffusion test. The complexes recorded a moderate activity against the screened pathogens.

### KEYWORDS:

Pyrrolidine dithiocarbamate, Schiff base, Copper ion, Antibacterial activities.

### INTRODUCTION

Dithiocarbamate ligands,  $[S_2CNR^1R^2]^-$ , have found extensive use in coordination chemistry. Their wide range of applications, e.g. in industry, agriculture and medicine, has generated a large collection of crystallographic data for their metal complexes. Dithiocarbamates are highly versatile mono-anionic chelating ligands which form stable complexes with all the transition elements and also the majority of main group, lanthanide and actinide elements. The chemistry of transition metal-sulfur compounds has attracted much interest for their importance in the field of metalloenzymes, material

precursors, and catalysts. Cu(II) dithiocarbamates were first reported by Delpine as water insoluble precipitates obtained when aqueous Cu(II) ions were treated with aqueous solutions of the  $R_2Dtc$  ligands. Now a day's copper(II)dithiocarbamate is successfully used as a single source precursor for the growth of semiconducting copper sulfide thin films. Pyrrolidinedi thiocarbamate complexes are widely used in solvent extraction and other analytical procedures, because of their resistance to acidic media.

In the last few decades coordination compounds containing ligands with sulphur atoms as donors have received much attention due mainly to their role as analogues of proteins containing metal- sulphur bonds.

The chemistry of Schiff-base is an important field in coordination chemistry [1]. Schiff bases derived from an amino and carbonyl compound are an important class of ligands that coordinate to metal ions via azomethine nitrogen and have been studied extensively. In azomethine derivatives, the C-N linkage is essential for biological activity, several azomethine have been reported to possess remarkable antibacterial, antifungal, anticancer and antimalarial activities (Annapoorani and Krishnan, 2013) [2]. Some novel transition metal [Co(II), Cu(II), Ni(II) and Zn(II)] complexes of substituted pyridine Schiff-bases have been prepared and characterized by physical, spectral and analytical data and they have been screened for antibacterial activity against the strains such as *Escherichia coli*, *Staphylococcus aureus*, and *Pseudomonas aeruginosa* [3].

Often, the physical properties of the mixed ligand complexes are significantly different from their parent metal complexes, and this influences their biological activities. A series of mixed ligand dithiocarbamate complexes with a general formula  $[ML_2(py)_2]$ , where M = Mn (II), Co(II), Ni(II), and Cu(II), py = pyridine, and L





## **A Study on the Stress Management among Employees at Travancore Cements Nattakom, Kottayam**

Devika R.

### **ABSTRACT**

Stress is a universal phenomenon that essentially changes itself in human as a result of pressure emanating from several experiences or challenging situation. Due to the nature of the company, stress becomes an issue of concern. The study focuses on identifying the sources of stress among employees, assessing the impact of stress on productivity and individual employees and examining the ways of effectively managing stress among employees. To achieve these objectives data were collected from 50 employees. Based on findings it was found that Conflict in work place, losing of interest in job, lack of concentration, frustration, inability to attain target are the main impact of stress on productivity and individual employees. It was therefore recommended that employees should have a self esteem and self control, attend training and development programs, integration of work, delegation of work so as to be able to cope up with stress.

**Key Words:** Stress, stress management techniques, work productivity,



### **1.1 INTRODUCTION**

The origin of the word stress is found in the Latin word *stringere* which means 'to be drawn tight'. Stress has become a major concern since it causes harm to an individual's health and performance. In simple words, stress refers to pressures or tensions people feel in life. As a living human makes constant demands, so it produces pressures i.e., stress. The work place is a challenging job assignment followed by moderate competitive spirit, constructive conflict and a zeal to get a head of others and ways in which individual cope or deal with stress at work is called stress management.

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# Viral Marketing: The Marketing Strategy of the Internet Age

Mishel Elezabeth Jacob

## ABSTRACT

The rapid diffusion of the internet and the emergence of various social constructs facilitated by internet technologies are changing the drivers that define how marketing techniques are developed and refined. The use of Viral Marketing Strategies by marketers around the world is one such example. Viral marketing is any strategy that encourages individuals to pass on a marketing message to others, creating the potential for exponential growth in the message's exposure and influence. Companies often create online ad campaigns or encourage consumer-generated content in the hope that people will share this content with others, but some of these efforts take off while others fail. Academic literature on this topic is still being developed and is in initial stages. This study tries to conceptually understand the various aspects and concepts of viral marketing, its advantages and disadvantages and the reason why online video advertisements go viral while others remain unnoticed.

**Keywords:** Diamond, Investors Perception, Investment in Diamonds

## INTRODUCTION

### Meaning of Viral Marketing:

Viral marketing may be describes as any strategy that encourages individuals to pass on a marketing message to others, creating the potential for exponential growth in the message's exposure and influence. (Wilson 2000). The underlying concept behind viral marketing is that people will interact with other people, spreading information about products or services, making every customer a salesperson. The term *viral* has been intentionally used to describe this phenomenon because the pattern of communication reflects the pattern with which an especially contagious virus can



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## SOCIAL INCLUSION OF TRANSGENDERS: STRATEGIES AND ISSUES

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### Abstract.

The Kochi Metro Rail Limited (KMRL) has offered jobs for transgenders and some were appointed in it. They have come out with a proposal to provide transgenders with jobs at housekeeping, crowd management and customer relations. The Indian Railway has been a vulnerable place where the passengers meet with various types of harassments from the transgender people. While addressing this issue, one of the remedies suggested is to appoint some of these people in railway jobs in order to ward them off from harassing others. Is it a well planned strategic move to keep them out from the prestigious Kochi Metro rail to avert the troubles they make to the passengers? So without any redistribution of the social and mental set up, the transgender people are kept away from the mainstream transportation system through appeasement and reluctantly acknowledging a few polished and educated members of the group. By creating a feeling in them that they also have a stake in this social system, the establishment could maintain the status quo. In the very first month of Metro's functioning itself, eight among the twenty three quit their jobs due to various reasons. This paper analyses the hidden strategies behind this inclusion of the transgender into the mainstream society through jobs, thereby effecting an exclusion of the transgender community altogether.

**Key terms:** Transgenders, appeasement, marginalization, politics, housing.

Appeasement is a veiled way of getting realized a nasty pursuit. This strategy is known and practiced by the people all around the world for their personal as well as for social gains. This technique is a well used tactics by nations in international relations also. Some people consider appeasement as a positive term which coincides with terms like conciliation, accommodation etc. In any case this term is linked with "crisis prevention" and "crisis resolution". Stephen R. Rock in his book *Appeasement in International Politics* speaks about the term:

According to Gordon Craig and Alexander George, in the language of classical European diplomacy, 'appeasement' referred to 'the reduction of tension between (two states) by the methodical removal of the principal causes of conflict and disagreement between them'. . . Ideally, appeasement (sometimes accompanied by

alliance), represented the culmination of a process of tension- reduction . . . (10)

The Indian railway has been facing a major threat from the transgender people whom the society calls *hijrahs* or *hijadas*. Usually in the orthodox social set up prevailing in India, the transgender people are denied proper education and therefore decent jobs. More than ninety percent of the transgender group is school drop outs. The narrow minded Indian people see them as a kind of "untouchables" who should be sent towards the margins. Devoid of proper jobs and earnings for daily sustenance many of these people begin to beg or threaten the passengers on Indian trains for money. These people are very rude in their demeanour, and they harass people who show reluctance to give money. Many incidents have been reported from various trains. The the Indian Railway, the RPF and the Indian government are probing into an effective solution for this. *The Times of India*



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