

AN EMPIRICAL STUDY ON EMPLOYEE COMMITMENT AND JOB PERFORMANCE OF PRIVATE SECTOR EMPLOYEES

¹Ms. Hifza Shaima, ²Dr.K.Kalaiselvi

¹Ph.D. Research Scholar, Vels Institute of Science Technology and Advanced Studies (VISTAS), ²Assistant Professor of Commerce, Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai – 117.

ABSTRACT

The committed employees are able to contribute better to the organization and they perform well. This study shows that the success and failure depends on employee commitment. The aim of this study is to examine employee commitment and job performance of private sector employees. The role of employee commitment has been accepted as an active method for improving the employee performance. In this research job performance is taken as dependent variable and employee commitment is employed as an independent variable. Theaim of this study is to investigate the effect of an employee commitment on job performance. Employee job satisfaction, organizational support, and employee engagement improve the employee performance. The finding of the study reveals that the committed employees have good leadership quality, increased productivity, high turnover, reduced absenteeism and job satisfaction.

Keywords: Employee Commitment, Job Performance, Organizational support

1. INTRODUCTION

The job performance assesses every employee whether they performs a job well. Job performance is a part of organizational psychology it alsoforms a part of HRM. The job performance is an important principle for organizational outcomes and its success. Allen and Myer (1990) stated that the result of employee commitment effectiveness was of leadership, iob performance, and improvement in employee behavior. reduced turnover and reducedabsenteeism. Most of the organizations have good understanding about the value of enhancing the employees' commitment towards organization.Lantos the and (2012)Craton, examined that the employees who are happy at their workplace find their occupation to bemore meaningful, more interesting and more attractive compared to other employees. Boles et al., (2007) ascertained that job satisfaction, job performance and some of otherimportant factors are significant predictors of employee commitment. Generally some of other factors will also affect the employees' commitment towards the organization. All factors such as promotional opportunities, pay raises, recognitions and training programme could enhance the employees' commitment towards the organization.

Beheshtifar and Herat (2013)examined that human capital is one of the most important assets of every organization which increases the efficiency and effectiveness of the company. According to Rafiq Awan and Mahmood (2009), employee commitment shows that quality of leadership which exists within an organization. Through this

study it was ascertained that there is a significant relationship between employee commitment and job performance. Many research articles indicate that the relationship between the employee commitment and job performance is positive. The committed employees have good leadership quality, increased productivity, high turnover. reduced absenteeism and job satisfaction.

2. REVIEW OF LITERATURE

According to Dordevic (2004), Bishop& Scott (1997) leadership style will develop the organizational commitment, and it will contribute a lot to the employees those who are interested to provide information about the relationship between leadership styles and the organizational commitment.

Meyer & Allen (1997) analyzed that the employees' commitmenttowards the organization is an important issue, because it is used to predict the performance of employees, absenteeism and their behaviors. The employee's commitment towardsthe organization has been defined in different ways including the attitude or the orientation that connects the identity of the workers of organization.

According to Dordevic (2004) there are three types of organizational commitment namely normative, continuance and affective organizational commitment. If the employees are to be committed with their organizations, their expectation is their organization to be committed to them.

Markos & Sridevi (2009) stated that employee engagement is a strong predictor of positive organizational performance and it clearly shows the two way relationship between the employer and the employee. The employee job performance is compared withemployee commitment, job satisfaction and organizational citizenship behavior.

According to Abelson, (1976) in past the organizations provide job security to their employees to improve their commitment to the organization as well as to improve their productivity. Now a day's most of the organizations are concentrating to improve their productivity and not ready to give proper benefits to their employees.

Shore and Tetrick (1991) Hunt and Morgan (1994) stated that based on the past history and outcomes, the importance of employees' commitment is increasing as compared with the past thirty years as the committed employees will concentrate more on their work and they will perform better so that the productivity of the organization also will be increased.

John P. Campbell ascertained that job performance is an individual-level variable or about single person does. Job performance depends on the employee and designation. Some of the employees will concentrate on their work based on the benefits and some of them will work to show their performance.

3. EMPLOYEE COMMITMENT AND JOB PERFORMANCE

should Every organizations increase their employee's performance in order to improve their company ahead of their competitors. A high performance of the employees can make a dramatic contribution to the accomplishment of the organizational goals and success. The relationship between commitment and performance has been widely revealed in domain of human the resources management. The human resources activities like staffing, training, performance management, and retention of

intellectual human capital. The employee's helps achieve involvement to the organizational goals and improve the productivity. The commitment reflecting the affective orientation toward the organization, moral obligation to remain with an organization and recognition of costs associated with leaving the organization.

The normal pressure of the organization is to induce the employees to perform better and motivate them to move to the next level. The result of high pressure is the commitment of employers employees towards the giving less output.Basis Mowday, Porter, & Steers (1982)examined that employee Commitment is necessary for every organization in order have the to outstanding performance on long term. Mowday et al., (1982) ascertained that the employees act like entrepreneurs when they work as a team also every member of the team tries their level best to prove one

the best amongst all the other members. High level of commitment of employees in the organization ultimately increases the performance of the employees.

The higher level of employee commitment with the organization for individual projects or to the organization is assumed as a main reason for better employee performance whichwill lead to organizational success. The performance of the employee also increases when the employees are more satisfied with their job duties. and their The employee's satisfaction may depend on the system. remuneration, rewards organizational culture and the knowledge sharing of the employee. The companies are doing the continuous investigation on employee commitment and its effect on employees' efficiency and the job performance.

4. THEORETICAL FRAMEWORK



5. STATEMENT OF THE PROBLEM

In this technological world, the organizations have a desire to find many ways to increase job performance. Hence, the organization needs to focus on their employee's knowledge management and the information system resources for recognizing their fundamental process for the success towards their competitor. Heavy work pressure and employees targets achievement are not aware of the existence of human resource management and affect the commitment of employees and job performance.

6. OBJECTIVES OF THE STUDY

- a. To analyse employee commitment and job performance of private sector employees.
- b. To study the strategy followed by the organization to improve the employee commitment
- c. To analyse whether employee's commitment determinesthe Job performance.

7. SCOPE OF THE STUDY

This research was undertaken by the researcher to assess the employee commitment towards the organization. This study will be useful to the employees to understand the strategies which is followed by the organizationsto improve the job performance.

8. LIMITATIONS OF THE STUDY

- ✓ This study is particularly based on Chennai city private ltd companies.
- ✓ This study is concentrated only on employee commitment and job performance.

9. HYPOTHESIS

H0: There is nosignificant relationship between age and job performance factors.

H1: Employee commitment can be enhanced through improvement of job performance factors.

10. METHODOLOGY

Sampling method used for data collection. Primary as well as secondary data has been used for this research. The researcher used 125 questionnaires to collect data from the respondents. But the usable questionnaire is 114. So the sample size is 114. KMO and Bartlett's test, Ttest, one-way ANOVA and SEM is adopted to analyse the employee commitment and job performance of private sector employees.

Reliability Statistics					
Cronbach's Alpha	No. of				
Value	Items				
.922	6				

The researcher used Cronbach's Alpha test to measure the internal consistency for validating the survey questionnaire. The Cronbach's Alpha Value is 0.922

11. ANALYSIS AND RESULTS

KMO and Bartlett's Test				
Kaiser-Meyer-Olk	804			
Sampling Adequad	.804			
	Approx. Chi-	677.2		
Bartlett's Test of	Square	93		
Sphericity	df	15		
	Sig.	.000		

Kaiser-Meyer-Olkin Measure is an index which defines the sampling adequacy. KMO value = 0.804 which is more than 0.5 hence it can be considered acceptable.

Bartlett's Test of Sphericity has to help the researcher to decide whether the factor analysis results are worth considering for analyzing the research work. Bartlett's Test of Sphericity significant at the level of 0.000 significance which shows that high level of correlation between the variables, so it is adequate for factor analysis.

a. ONE SAMPLE TEST

One-Sample Test									
FACTORS	Test Value $= 3$								
	N Mean Std. Mean t df S								
			Deviation	Difference					
Receiving proper training from the company	114	3.15	1.271	.149	1.253	113	.213		
Receiving timely motivation from management	114	3.11	1.346	.105	.835	113	.405		
Receiving good remuneration	114	2.85	1.214	149	-1.312	113	.192		
Management following proper promotion policy	114	2.76	1.471	237	-1.719	113	.088		

Interpretation

The p value of job performance factors such as Receiving proper training from the company (3.15), Receiving timely motivation from management (3.11), Receiving good remuneration (2.85) and Management following proper promotion policy (2.76) is more than 0.05 at 5% level of significance. Thus, null hypothesis accepted. It revealed that there is no significant difference in receiving proper training from the company, receiving timely motivation from management, receiving good remuneration and Management following proper promotion policy among the respondents. H0: There is no significant relationship between age and job performance factors.

b. ONE- WAY ANOVA-JOB PERFORMANCE FACTORS

ANOVA							
		Sum of	df	Mean	F	Sig.	
		Squares		Square			
Receiving proper	Between Groups	6.451	3	2.150	1.344	.264	
training from the	Within Groups	176.014	110	1.600			
company	Total	182.465	113				
Receiving timely	Between Groups	2.823	3	.941	.513	.674	
motivation from	Within Groups	201.914	110	1.836			
management	Total	204.737	113				
Passiving good	Between Groups	5.186	3	1.729	1.179	.321	
remuneration	Within Groups	161.279	110	1.466			
	Total	166.465	113				
Management	Between Groups	5.546	3	1.849	.851	.469	
following proper	Within Groups	239.059	110	2.173			
promotion policy	Total	244.605	113				
Employee	Between Groups	8.366	3	2.789	1.663	.179	

AN EMPIRICAL STUDY ON EMPLOYEE COMMITMENT AND JOB PERFORMANCE OF PRIVATE SECTOR EMPLOYEES

Commitment	Within Groups	184.415	110	1.677		
	Total	192.781	113			
	Between Groups	4.563	3	1.521	1.046	.375
Job performance	Within Groups	160.007	110	1.455		
	Total	164.570	113			

Interpretation

The P value of the variables such as receiving proper training from the company, receiving timely motivation from management, receiving good remuneration and Management following proper promotion policy are more than 0.05 at 5% level of significance. Hence, the null hypothesis of the above variables are accepted. It has been examined that there is no significant difference between receiving proper training from the company, receiving timely motivation management, from receiving good remuneration and Management following proper promotion policy of job performance factors.

c. POST HOC –TUKEY HSD TEST-JOB PERFORMANCE FACTORS

Post Hoc – Tukey HSD Test- Job performance factors						
Dependent Variable	Age	Age	Mean	Std.	Sig.	
			Difference	Error		
	Loss than 20	30- 40 years	.248	.316	.861	
	Less mail 50	41- 50 years	351	.306	.662	
	years	Above 50 years	070	.430	.998	
		Less than 30 years	248	.316	.861	
	30- 40 years	41- 50 years	599	.301	.198	
Receiving proper training		Above 50 years	318	.426	.878	
from the company		Less than 30 years	.351	.306	.662	
	41- 50 years	30- 40 years	.599	.301	.198	
		Above 50 years	.281	.419	.908	
	Above 50 years	Less than 30 years	.070	.430	.998	
		30- 40 years	.318	.426	.878	
		41- 50 years	281	.419	.908	
	Less than 30 years	30- 40 years	.061	.339	.998	
		41- 50 years	263	.328	.853	
		Above 50 years	333	.461	.887	
		Less than 30 years	061	.339	.998	
Peceiving timely	30- 40 years	41- 50 years	324	.322	.747	
motivation from		Above 50 years	394	.457	.824	
management		Less than 30 years	.263	.328	.853	
management	41- 50 years	30- 40 years	.324	.322	.747	
		Above 50 years	070	.449	.999	
	Above 50	Less than 30 years	.333	.461	.887	
	AUUVE JU	30- 40 years	.394	.457	.824	
	years	41- 50 years	.070	.449	.999	

	Lass than 30	30- 40 years	.200	.303	.911
	Less mail 50	41- 50 years	141	.293	.963
	years	Above 50 years	527	.412	.578
		Less than 30 years	200	.303	.911
	30- 40 years	41- 50 years	341	.288	.638
Receiving good remuneration		Above 50 years	727	.408	.288
		Less than 30 years	.141	.293	.963
	41- 50 years	30- 40 years	.341	.288	.638
		Above 50 years	386	.401	.771
	Above 50	Less than 30 years	.527	.412	.578
	Above 50	30- 40 years	.727	.408	.288
	years	41- 50 years	.386	.401	.771
	Loss than 20	30- 40 years	.225	.369	.929
	Less than 50	41- 50 years	211	.357	.934
	years	Above 50 years	457	.501	.799
		Less than 30 years	225	.369	.929
	30- 40 years	41- 50 years	436	.351	.601
Management following		Above 50 years	682	.497	.520
proper promotion policy		Less than 30 years	.211	.357	.934
	41- 50 years	30- 40 years	.436	.351	.601
		Above 50 years	246	.488	.958
	Above 50	Less than 30 years	.457	.501	.799
	years	30- 40 years	.682	.497	.520
		41- 50 years	.246	.488	.958
	Loss than 30	30- 40 years	018	.324	1.000
	years	41- 50 years	580	.313	.256
		Above 50 years	457	.440	.727
		Less than 30 years	.018	.324	1.000
	30- 40 years	41- 50 years	562	.308	.267
Employee Commitment		Above 50 years	439	.436	.746
Employee Communent		Less than 30 years	.580	.313	.256
	41- 50 years	30- 40 years	.562	.308	.267
		Above 50 years	.123	.429	.992
	Above 50	Less than 30 years	.457	.440	.727
	Above 50	30- 40 years	.439	.436	.746
	years	41- 50 years	123	.429	.992
	Loss than 20	30- 40 years	.225	.302	.878
	Less than 50	41- 50 years	106	.292	.983
Job performance	years	Above 50 years	457	.410	.681
job performance		Less than 30 years	225	.302	.878
	30- 40 years	41- 50 years	331	.287	.657
		Above 50 years	682	.407	.341

	Less than 30 years	.106	.292	.983
41- 50 years	30- 40 years	.331	.287	.657
	Above 50 years	351	.399	.816
Above 50	Less than 30 years	.457	.410	.681
Above 50	30- 40 years	.682	.407	.341
years	41- 50 years	.351	.399	.816

AN EMPIRICAL STUDY ON EMPLOYEE COMMITMENT AND JOB PERFORMANCE OF PRIVATE SECTOR EMPLOYEES

Interpretation

The Post Hoc- Tukey HSD test is used to test the significant difference between groups based mean difference. Above 50 age group employees are training, receiving proper receiving timely motivation from management, receiving good remuneration from their organization as compared with other age group. The above 50 age group respondents stated that the management of the organization are following proper promotion policy but other age group such as less than 30 age group, 30-40 age group and 41 - 50 age group examined that their organizations are not following proper promotion policy.

The employee commitment is more under the age group of 41- 50 as compared with other age group and the employee job performance is higher for above 50 age group as compared with other age group respondents.

d. STRUCTURAL EQUATION MODEL



Interpretation

As per the suggestion of modification indices the researcher make some correction to improve the model fit.

GOODNESS OF FIT TEST

GFI	AGFI	NFI	CFI	RFI	IFI
.999	.976	.999	1.00	.992	1.001

It is clear that the model fitness has improved after the modification like GFI=.999, AGFI=.976, NFI = .999, CFI =1.00, RFI = .992, IFI = 1.001.it shows that good model fit achieved after modification.

Regression	Weights
------------	---------

			Estimate	S.E.	C.R.	Р
Employee Commitment	<	Management following proper promotion policy	012	.070	176	.860
Employee Commitment	<	Receiving timely motivation from management	070	.075	933	.351
Employee Commitment	<	Receiving good remuneration	.121	.084	1.438	.150
Employee Commitment	<	Receiving proper training from the company	.874	.069	12.753	***
Job performance	<	Receiving proper training from the company	.015	.058	.263	.792
Job performance	<	Management following proper promotion policy	.031	.038	.826	.409
Job performance	<	Employee Commitment	071	.053	-1.356	.175
Job performance	<	Receiving good remuneration	.951	.045	20.944	***

The relationship between different variables are measured through standardized regression coefficient. From the above table the standardized regression coefficient shows that when exogenous variables goes up by 1 unit the endogenous variable goes up by the units of its respective estimates.

H1: Employee commitment can be enhanced through improvement of job performance factors.

The regression coefficient, critical ratio and p value of path from employee Commitment to proper promotion policy is -0.012, -0.176 and 0.860 respectively. P value is more than 0.05, null hypothesis is accepted. It ascertained that there is no significant difference between employee commitment and proper promotion policy. When the

managementfollowingproperpromotionpol icy goes up by 1, EmployeeCommitment goes down by 0.012.

The regression coefficient, critical ratio and p value of path from employee Commitment to Receiving timely motivation from managementis -0.070, -0.933 and 0.351 respectively. P value is more than 0.05, hence, null hypothesis is accepted. It ascertained that there is no significant difference between employee commitment and Receiving timely motivation management.When from receiving timely motivation from management goes up by 1, EmployeeCommitment goes down by 0.07. The regression coefficient, critical ratio and p value of path from employee Commitment to receiving good remuneration is .121, 1.438 and 0.150 respectively. P value is more than 0.05, hence, null hypothesis is accepted. It ascertained that there is no significant difference between employee commitment and receiving good remuneration.When receivinggoodremuneration goes up by 1, EmployeeCommitment goes up by 0.121.

The regression coefficient, critical ratio and p value of path from employee Commitment to Receiving proper training from the companyis .874, 12.753 and 0.000 respectively. P value is less than 0.05, hence, null hypothesis is rejected. It ascertained that there is a significant difference between employee commitment and training.When receiving proper training from company it goes up by 1, Employee Commitment goes up by 0.874.

The regression coefficient, critical ratio and p value of path from job performance to Receiving proper training from the companyis .015, .263 and 0.792. P value is more than 0.05, therefore, null hypothesis is accepted. It ascertained that there is no significant difference between performance job and training.When receiving training from proper the company it goes up by 1, Job performance goes up by 0.015. The regression coefficient, critical ratio and p value of path from job performance to proper promotion policy is 0.031, 0.826 and 0.409. P value is more than 0.05, null hypothesis is accepted. It ascertained that there is no significant difference between job performance and proper promotion policy. When Managementfollowingproperpromotionpol icy goes up by 1, Jobperformance goes up

The regression coefficient, critical ratio and p value of path from job performance to employee commitment is -0.071, -1.356 and 0.175. P value is more than 0.05, null hypothesis is accepted. It ascertained that there is no significant difference between job performance and employee commitment. When EmployeeCommitment goes up by 1,

by 0.031.

Jobperformance goes down by 0.071. The regression coefficient, critical ratio and p value of path from job performance to employee commitment is 0.951, 20.944 and 0.000. P value is less than 0.05, hence, null hypothesis is rejected. It ascertained that there is a significant difference between job performance and good remuneration. When receivinggoodremuneration goes up by 1, Jobperformance goes up by 0.951.

12. SUGGESTION AND FINDINGS

This study reveals the employee commitments performances and job factors. There is a bond between training, motivation, promotion, remuneration with performance iob and employee commitment. Thus, hypothesis was tested. The greater commitment of employees will maximize the job performance. Hence the motivation. training. promotion, remuneration will lead to the work efficiency, improve employee commitment and increases the productivity of the organization. The organization needs to understand the value of the employee's and provide necessary arrangements to improve their skills, knowledge and behavior. It would help them to improve their productivity.

Findings based on objective 1

According to one sample test it was ascertained that there is no significant difference in receiving proper training from the company, receiving timely motivation from management, receiving good remuneration and Management following proper promotion policy among the respondents. It was ascertained that most of the companies do not provide proper benefits to their employees. Training, good remuneration, promotion and motivation will help the employees as well as the organization.

Findings based on objective 2

One - way ANOVA was used to measure the strategies followed by the organization to improve the employee commitment. It revealed that there is no significant difference between receiving proper training from the company, receiving timely motivation from management, receiving good remuneration Management following and proper promotion policy of job performance factors.

Findings based on objective 3

Structural equation model was used to analyze whether employee's commitment determines the Job performance. The regression coefficient, critical ratio and p value of path from job performance to receiving good remunerationis 0.951, 20.944 and 0.000. P value is less than 0.05, hence, null hypothesis is rejected. It ascertained that there is a significant difference between job performance and good remuneration. When receiving good remuneration goes up by 1, Job performance goes up by 0.951.

13. CONCLUSION

According to this study, the researcherconcludes that, there is a relationship between significant iob performance, job performance factors and employees' commitment. Moreover the researcher analyzed that training. motivation, proper promotion policy and good remuneration will motivate every employeeto be more committed with the organization. It concludes that every organization should follow good human resource policies to improve the skill of their employees. This study reveals that some of the organizations are following

good HR policies for their employees as well as their families. It is ascertained that lack of employee benefits will affect the employees' commitment and job performance.

REFERENCES

- Ahmed, Z., and Shaheen, N. (2011). Impact of Employee Commitment of Organizational Performance, Arabian Journal of Business and Management Review, Vol.1 (3), P.P: 87-98.
- Boxall P, Macky.K (2007), Highperformance work systems and organisational performance: bridging theory and practice, Asia Pacific J Hum Resource, Vol.45(3), P.P:261– 270.
- Colakoglu S, Lepak DP, Hong Y (2006) Measuring HRM effectiveness: considering multiple stakeholders in a global context. Hum Resource Management Rev, Vol.16 (2), P.P:209–218.
- 4. Dixit, V., and Bhati, M. (2012). A Study about Employee Commitment Impact Sustained and its on Productivity in Indian Auto Component Industry, European Journal of Business and Social Sciences, Vol.1(6), pp. 34-51.
- Ehrnrooth M, Björkman I (2012), An integrative HRM process theorization: beyond signaling effects and mutual gains. Journal of Management Studies, Vol:49, P.P:1109–1135.
- Harley B, Allen BC, Sargent (LD2007) High performance work systems and employee experience of work in the service sector: the case of aged care. Br J Ind Relations, Vol:45 (3), P.P:607–633.
- 7. Chitradevi, K., & Kalpana, G. (2020). The FIIs flow into the Indian stock markets. *International Journal of*

Advanced Science and Technology, 29(1).

- 8. Muthusamy A, Kalpana G (2019), "The Influence of FDI with GDP its Impact of FDI in Civil Aviation Sector in India" *International Journal of Recent Technology and Engineering* (*IJRTE*), Volume-8, Issue-2S10,
- Muthusamy A, Kalpana G (2018), "Operational and Productivity Efficiency of International Airlines in India" *International Journal of Research Culture Society*, Volume-2, Issue-1, PP-35-40,
- Igella, R. (2014). Factors Influencing Employee Commitment: A Case of Kenya Civil Aviation Authority, Unpublished Dissertation, United States International University.
- 11. Irefin, P., and Mechanic, M.A. (2014).
 Effect of Employee Commitment on Organizational Performance in Coca Cola Nigeria Limited Maiduguri, Borno State, IOSR Journal of Humanities and Social Sciences, Vol. 19 (3), P.P:33-41.
- 12. Irving, P. G., & Coleman, D. F. (2003), The Moderating Effect of Different Forms of Commitment on Role Ambiguity-Job Tension Relations. Canadian Journal of Administrative Sciences/Revue Canadienne des Sciences del 'Administration, Vol:20 (2), P.P:97-106.
- 13. Jiang K, Lepak DP, Han K, Hong Y, Kim A, Winkler AL (2012) Clarifying the construct of human resource systems: relating human resource management to employee performance. Hum Resour Manag Rev, Vol.22(2), P.P:73–85.
- 14. Shahid, A., and Azhar, S.M (2013), Gaining Employee Commitment: Linking to Organizational

Effectiveness, Journal of Management Research, Vol. 5 (1), P.P: 250-268.

- 15. Somers, M. J. (2009). The combined influence of affective, continuance and normative commitment on employee withdrawal. Journal of Vocational Behavior, 74(1), 75-81.
- 16. Subramony M (2009) A meta-analytic investigation of the relationship between HRM bundles and firm performance. Human Resource Manage, Vol. 48(5), P.P:745–768.
- 17. Tinofirei, C. (2011), The unique factors affecting employee performance in non-profit organizations. Unpublished master's thesis, University of South Africa, South Africa.
- Wittig-Berman, U., & Lang, D (1990) Organizational commitment and its outcomes: Differing effects of value commitment and continuance commitment on stress reactions, alienation and organization-serving behaviours. Work and Stress, 4, P.P: 167-177.
- 19. Kalpana G, Muthusamy A (2019), "A comparative analysis: Operating income and operating expenses of airlines industry" ZENITH International Journal of Multidisciplinary Research,
- 20. Kalpana G, Muthusamy A (2019), "A Comparative Analysis of Airline Productivity of Selected International Airlines" *International Journal of Scientific Development and Research* (*IJSDR*), ISSN: 2455-2631, February 2019 IJSDR | Volume 4, Issue 2