

THE IMPACT OF HUMAN RESOURCE PRACTICES AND ORGANIZATIONAL CLIMATE TOWARDS THEHIGH PERFORMANCE WORK SYSTEMS - A CASE STUDY OF ANGKASA

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BY

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DECLARATION

I declare that the substance of this project paper has never been submitted for any degree or post graduate program and qualifications.

I certify that all the supports and assistance received in preparing this project paper and all the sources abstracted have been acknowledged in this stated project paper.

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ABSTRACT

In recent years, the High Performance Work Systems (HPWSs) has been deliberated among the academicians and business players within the industries. Unfortunately, the study on this issue has been, mostly focus on the big size organization and conglomerates. Considering this phenomenon, it has created a high level of desire and curiosity to conduct a study on HPWSs in the sector of cooperatives. After considering all factors, AngkatanKoperasiKebangsaan Malaysia Berhad (ANGKASA) has been selected as the case under study, because of its size, number of employees, nature of business and role in the cooperatives movement in Malaysia.In this study, human resource practices and organizational climate have been selected as the independent variables, while the high performance work systems, as a dependent variable. They will be tested in order to determine whether there is a relationship or influential forces among them. For the purpose of data analysis, a survey had been done to the employees of ANGKASA, by using the Simple Random Sampling. The analysis shows that there is a relationship between organizational climate and human resource practices with the high performance work systems towards ANGKASA. The number of questionnaire distributed were 450, where 260 employees had returned their questionnaire which consists of 58%. The correlation coefficient for the Organizational Climate for communication and Decision Making is 0.52, p<0.00, Bureaucracy is -0.22, p<0.00 and Work Methods is 0.56, p<0.00 for the organizational climate. While for the human resource practices, the pearson correlation for Training and Development is 0.66, p<0.00, Compensations is 0.56, p<0.00 and benefits is 0.59, p<0.00. Thus, it is crucial for the organization to put a great emphasize on the significant roles played by these two variables in high performance work systems.

ABSTRAK

Sejakkebelakanganini,

SistemKerjaBerprestasiTinggitelahhebatdiperbincangkanolehahliakademikdanahliperniagaan di dalamindustri.Namun,

isusistemkerjaberprestasitinggiinilebihbanyakdifokuskankepadaorganisasibersaizbesardankon glomerat.Melihatkepadasituasiini, iamenimbulkanperasaaningintahu yang tinggi di dalamdiripenyelidikuntukmembuatpenyelidikanberkaitanperkaraini di dalamsektorkoperasi. Bagitujuanpenyelidikanini, AngkatanKoperasiKebangsaan Malaysia Berhad (ANGKASA) telahdipilihsebagai analisisdisebabkanolehfaktorsaiz, unit jumlahpekerja, latarbelakangoperasidanperanan yang dimainkannya di dalamperkembangankoperasi di duapembolehubahtelahdipilihiaitu Malaysia.Di dalampenyelidikanini, (1)AmalanSumberManusiadan klimakOrganisasisebagaipembolehubahtidakbersandar, (2)manakalaSistemKerjaBerprestasiTinggisebagaipembolehubahbersandar.Kedua-

duapembolehubahiniakandiujiuntukmenentukansamadawujudnyahubungkaitataupengaruh di antaramereka.Bagitujuanpenganalisaan data, kajiselidiktelahdilakukankeataspekerja ANGKASA di manasoalankajiselidiktelahdiedarkankepadapekerjapekerjainidenganmenggunakankeadahsampelrawakringkas.Dari hasilanalisis yang diperolehi, bolehdikatakanbahawaterdapathubungkait di

antaraamalansumbermanusiadanklimakorganisasiterhadapsistemkerjaberprestasitinggi.Seban yak 450 soalankajiselidiktelahdiedarkankepadapekerja-pekerja ANGKASA, dandaripadajumlahtersebut 260 kajiselidiktelahberjayadikutip yang menyumbangkepada 58%.Daripadaperkiraanstatistik yang dibuat,

korelasikoefisienbagiklimakorganisasiuntukfaktorkomunikasidanmembuatkeputusanadalah 0.52, p < 0.00, birokrasiialah -.022, p < 0.00 dankaedahkerjaialah 0.56, p < 0.00. Manakalauntukamalansumbermanusia, bagifaktorlatihandanpembangunanialah 0.66, p < 0.00, imbuhanialah0.56, p < 0.00, danfaedah pula sebanyak 0.59, p < 0.00. Makadenganini, adalahamatpentingbagiorganisasiuntukmemberikanperhatian yang seriuskeatasperananyang dimainkanolehduapembolehubahtidakbersandarini di dalamsistemkerjaberprestasitinggi.

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CHAPTER 1

INTRODUCTION

1.0 INTRODUCTION

The nature and pace of recent changes in the economic environment have motivated both managers and scholars to look for new sources of competitive advantage and profitability (Huselid & Becker, 1997). As a result, interest in how organizations might use the High Performance Work System (HPWS) as a "competitive instruments in the industries, and across market segments within industries" (Batt,2002; Boxall,2003) in ensuring their sustainability is seen critical. The call for this changes become more crucial due to the "changes in the atmosphere of global business and the continuing liberalization pressures occurring from economic and financial crisis provide new challenges as well as opportunities" (Nazlina, Siti Rohaida & Aizzat, 2011).

Due to the rapid changes in the business landscape as mentioned above, the business players started to realize they can no longer depend on the traditional methods of doing business, to ensure sustainability. Thus, they need to keep abreast with the latest technology, by giving sufficient training and development to the employees so that they are well-trained and competent in performing their work. Most organizations, nowadays, have started to see the notion of "employee-friendly" is important to keep up the employees' motivation and job satisfaction, by creating a conducive and supportive working environment, so that they will work hard to achieve the organizational objectives, as well as possessing a high level of organizational citizenship behavior.

It is the intention of this study to see how the concept of the high performance work system can help the organization to have a competitive advantage, and at the same time ascertaining what are the other factors that may influence its successfulness. For the purpose of this study, two factors have been selected, which are the human resource practices and organizational climate. From the data obtained, an analysis will be made to determine whether those factors have a great impact or have a relationship towards the HPWS.

In a general term, a High Performance Work System (HPWS) can be viewed as a key strategic lever, both as a mean to develop and sustain core competencies, and as a necessary condition for strategies implementation (Dyer,1993;Pfeffer,1994;Levine,1995). According to BusinessDictionary.com (n.d.), core competencies can be defined as a unique ability that a company acquires from its founders or develops and that cannot be easily imitated. Core competencies are what give a company one or more competitive advantages, in creating and delivering value to its customers in its chosen field.

HPWS is a concept where the organization striving to achieve its objectives and mission through people. Thus, it sees employees as a priceless or valuable asset. The organization can have the most up-to-date equipment with the latest technology, but without an innovative, highly motivated, well trained and competent employee, those sophisticated equipment will be useless. Pfeffer(1998) supporting this by saying that, human resource a vital factor that could affect the performance of organization.

Human resource practices and organizational climate are two independent variables that have selected in this study, to see their relationship with the HPWS. Since, HPWS is a concept where the organization tries to achieve its objectives through people or employees, thus the researcher considered these two factors are the most appropriate to be tested in relation to high performance work system. It is about time the human resource unit or department play a more active role and be a strategic partner to every unit or department in the organization. In today hyper-competitive global business arenas (D'Aveni, 1994), organization's stakeholders are demanding that all functional areas within the firm, including human resource function, clearly demonstrate their contribution to the overall organization's performance and ensure that firm's human capital contributes to the achievement of its

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business objectives (Baird and Meshoulam, 1988). The ability of the human resource practices to demonstrate their integral role in the achievement of improved organization performance is significantly crucial to justify the existence of human resource department. Thus, managing human resource functions strategically is vital in contributing to organizational performance (Lado and Wilson, 1994; Ulrich, 1997; Wright, McMahan and McWilliams, 1994).

Besides an employee friendly human resource practices, a conducive and supportive working environment is very important in order to ensure the employees are happy working with the organization. An unhappy worker normally will create a lot of disciplinary problems such as lateness, being rebellious, and absent without proper reasons. Organizational climate is important as it is seen as influencing day-to-day job experiences (Schneider and Hall, 1972). Hence, it must not be taken lightly in the implementation of high performance work systems.

This study was motivated by a desire to understand the role of human resource practices and organizational climate in creating a high performance work system in the cooperatives environment. As this paper will analyse the issue of High Performance Work System from the perspective of Co-operatives, it is vital to understand the meaning of co-operatives. According to the Royal Professor Ungku A. Aziz (2007), "A co-operative is an autonomous association of persons united voluntarily to meet their common economic, social, and cultural needs and aspirations through a jointly-owned and democratically-controlled enterprise".Cooperatives were found as an important and interesting context in which to study the effects of human resource practices and organizational climate because this sector has increasingly play important economic role and exist in an environment characterized by rapid change, ambiguity, and hyper-competition.

By size,majority of the cooperatives are small or medium size enterprise (SME). However, they must not be underestimated just because of their size. According to Asia-Pacific Economic Cooperation (APEC) (2002) pointed out that SMEs are deemed as supporters to larger enterprises as well as an important foundation in expanding business activities and sustaining economic growth. In sum, the cooperatives play a "vital role in contributing to the economy and are likely to be increasingly important as the economy becomes more global" (Nazlina et al., 2011).

Figure 1 : Number of Cooperatives (Coop) and Turnover According to Cluster of Year 2009

Number of Coope	ratives (Coop) and	Turnover Accordin	ng to Cluster of Yea	r 2009	
CLUSTER	COC	PERATIVES	TURNOVER		
	NUMBER	%	TOTAL (RM billion)	%	
Big Scale Coop	159	2.2	7.4	83.1	
Medium Scale Coop	361	5.0	0.8	9.0	
Small Scale Coop	716	10.0	0.4	4.5	
Micro Related Coop	5,979	82.8	0.3	3.4	
TOTAL	7,215	100	8.9	100	

SOURCE: The National Cooperative Policy 2011-2020 (Malaysia Cooperative Societies Commission)

Referring to Figure1 above, it can be seen that medium and small scale cooperatives constitutes of 5% and 10% of the total number of cooperatives with a turnover of 9% and 5% respectively. While the Micro related Coop constitute the highest figure, which is 83% of the number of cooperatives in Malaysia. Micro related cooperative is a cooperative which was formed solely for the purpose of providing loan to its members only.

This study is deemed necessary and important because of the significant roles play by the cooperatives which emphasizes the concept of "Socio-Economic". It means that, the cooperatives are required to act as a normal business entity, which is to gain as much profit as possible, but those profits must be used to serve the needs of their members, in order to improve their standard of living, in terms of economically, socially, and culturally. This is in accordance with the provision stated in the Co-operative Societies Act 1993, Section 45 (1) "In the conduct of the affairs of a registered society, the members of the Board of such registered society shall exercise prudence and diligence of ordinary men of business....". The focus of this paper is to analyse to what extent is the HR practices and organizational climate in an organization may affect the high performance work systems either from the perspectives of productivity, harmony working environment, and the efficientuse of resources, by analysing the correlation between the HR strategies and organizational climates with the organization's larger strategic objectives.

In view of this, it is the aim of this study to provide some insights to the cooperatives movement in Malaysia, on how to formulate a more efficient and effective methods in handling their employees, creating a more productive, supportive, creative, innovative and harmonious work environment to promote a high performance work systems in their organizations.

1.1 PROBLEM STATEMENTS

The government has seen the need for the drastic changes to the directions and strategies applied to the cooperatives as to make them more competitive and innovative in an effort to prepare this sector for the high performance work systems driven by the high technology. This need is profoundly crucial as Malaysia is on her move to become a high income developed nation by the year 2020. To achieve this, all economic sectors, namely

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public, private and cooperative have to play their roles in supporting the government's economic transformation program. The cooperatives can no longer depend on the traditional management systems, but changed to embrace a current or up to date ones, in this case the high performance work system. This is in line with one of the objectives set in theNational Cooperative Policy2011-2020, the involvement in the high-value economic activities by the cooperatives, can generate more wealth, benefitting members and contribute to the achievement of national development goals. Thus, cooperatives also must be more creative and innovative to be able to compete with other players in today's competitive business world.

One way of achieving those objectives is through education. The members of the cooperative must be equipped with the knowledge, skills, abilities and others, so that they will be able to manage the cooperative professionally, diligently and prudently. The cooperatives 'need to exploit all of their available resources as means of achieving competitive advantage to firms and in turn, improve the performance of their organization' (Nazlina et al., 2011). This is supported by the third core strategy in theNational Cooperative Policy2011-2020, to put a great focus in the training and development activities among the members and employees of the cooperative. The continuous learning will enable the cooperatives to keep abreast with the latest management techniques and technology in order to be competitive and innovative.

Besides that, the cooperative's product have to be more diversify and the services provided must be open beyond the scope of their members. The cooperatives need to utilize the ICT facilities in their daily operational and management processes. A continuous effort in research and development to enhance the quality and functionality of their products and services must be taken as a priority.

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The government hopes the cooperatives will able to contribute more to the country's Growth Domestic Product (GDP) by 5% in 2012 and 10% in 2020 (National Cooperative Policy 2011-2020). The successfulness of cooperatives is very much depends on their ability to be resilient in the volatility and roughness of the market. They need to be more "risk taker" and "adventurous" in searching for a new market opportunity. Changes in the economic, political and environment such as market liberalization process, the emergence of new technology, and the evolvement of ICT, put a pressure to the cooperatives to strengthen their stability in the market and continuously be competitive. Does Angkatan Koperasi Kebangsaan Malaysia Berhad (ANGKASA) has the workforce which is highly competent, well trained, qualified and innovative to meet the such challenges? Are they innovative enough to create a new services or products that are needed by most consumers? Is the human resource practices and organizational climate in ANGKASA is supporting the efforts to implement high performance work processes in order to achieve the above objectives?

Cooperatives in Malaysia have a strong and significant amount of resources either in the form of monetary, raw materials, work force, or expertise. ANGKASA as the apex cooperative in Malaysia need to play a role as an advisor to these cooperatives on how to utilize all of these resources in the most productive, safest, and efficient manner.In an interview through a phone with the Head of Membership Unit of ANGKASA, Encik Mond Radif Md. Jali, as at July 2012, the number of cooperatives that have become member of ANGKASA is 4,791. Does ANGKASA has a qualified, resourceful, and well trained work force to be an advisor or facilitator in selecting the best investment or business opportunities when needed by those cooperatives?. As action speaks louder than word, ANGKASA need to show to the members of its successful story of what it has been doing in order to gain cooperators' trust.

Figure 2 : Cooperatives Growth, Membership, Share Capital, Asset Value and Turnover (2005-2009)

Cooperatives Growth, Membership, Share Capital, Asset Value and Turnover (2005-2009)					
YEAR	NO. OF COOPERATIVES	MEMBERSHIP (million)	SHARE CAPITAL	ASSET (RM	TURNOVER (RM billion)
			(RM bilion)	bilion)	
2005	4,771	5.69	6.85	34.87	4.60
2006	4,918	5.87	7.29	37.47	5.10
2007	5,170	6.32	7.79	47.40	6.10
2008	6,084	6.51	8.42	55.73	7.75
2009	7,215	6.78	8.97	65.00	8.92

SOURCE: The National Cooperatives Policy 2011-2020 (Malaysia Cooperative Societies Commission)

Looking at Figure 2 above, it can be seen that the number of cooperatives and membership keep rising from year to year. This means that the cooperatives have been accepted by the society. In the year 2009 alone, the accumulated share capital by all cooperatives is RM8.97 billion, with an assets of RM65 billion. With such a huge amount of funds and resources available, ANGKASA must be able to help and guide those cooperatives to utilize these resources in an efficient manner especially a small and medium scale cooperatives.

While from the Figure 3 below, it can be seen that the business conducted by the cooperatives can be divided into several activities such as banking, credit or finance, agricultural, housing, industrialization, consumer, construction, transportation and services. It shows that this sector can go far and able to give huge profit should it be managed in a

professional way. Implementing a high performance work systems is one way to ensure these cooperatives able to achieve their mission and objectives in a high performance outcomes.

General Statistic of Cooperatives By Activities As At 31 December 2009						
NO	ACTIVITY	NO. OF COOPs	MEMBERSHIP (person)	SHARE CAPITAL (RM million)	ASSET (RM million)	TURNOVER (RM million)
1	BANKING	2	838,932	2,289.5	51,251.5	4,338.1
2	CREDIT/FINANCE	575	1,963,054	4,170.1	7,180.1	1,367.6
3	AGRICULTURAL	1,362	289,484	244.3	1,256.1	613.9
4	HOUSING	107	89,182	133.4	406.6	36.4
5	INDUSTRIALISATION	117	17,634	5.2	56.6	33.1
6	CONSUMER-adult	1,681	670,908	279.5	1,127.5	791.9
7	CONSUMER-school	2,115	2,106,130	17.3	177.7	195.1
8	CONSTRUCTION	117	62,171	14.4	56.8	64.2
9	TRANSPORTATION	346	148,196	58.7	250.2	512.2
10	SERVICES	793	598,084	1,753.3	3,236.2	966.5

SOURCE: The National Cooperatives Policy 2011-2020 (Malaysia Cooperative Societies Commission)

Perhaps because of its uninteresting nature of business, low level of income, or not a glamour industry to work with, most of the researches on the high-performance work systems have been widely done in the field of profit oriented businesses, big companies with high yearly turnover, but rarely in the world of non-profit organization or small business institutions, in this case cooperatives. Although cooperative businesses "have been responsible for many market innovations and corrections of market imperfections, little is

known about their impact as an economic sector" (Steven, Ann, Brent and Reka, 2009). According to them, no comprehensive set of national-level statistics had been compiled about U.S. cooperative businesses, their importance to the U.S. economy, or their impact on the lives and businesses of American citizens. In addition, it was also found out that most studies on human resource practices are discussed in the large organization and are less completely covered in small organization (Nazlina et al., 2011), inclusive the cooperatives.

The lack of a supportive and committed organizational environment continues to be the most important barrier to a wider diffusion of high performance practices. Climate perceptions are seen as a critical determinant of individual behavior in organizations (Carr, Schmidt, Ford, Deshon and Richard 2003). Employees who are emotionally committed to their organization tend to put forth more effort in achieving organizational objectives (Rhoades & Eisenberger, 2002). Thus, is ANGKASA is practicing a supportive style of management or employee-friendly type of environment? Do the employees were invited to give their comments, ideas or suggestions in the policy making processes? Is ANGKASA transparent enough in the information sharing among all components in the organization?

As the high performance work systems see human capital as the main actor, thus the human resource department must play a more active roles in ensuring that the employees are well trained, qualified, and competent to perform the tasks assigned to the. At the same time, it has to be a strategic partner to other units in the organization. In every plan, human resource department has to get involved to make sure the business strategies or plans made are in line with the talents, skills, expertise, knowledge and experience possessed by the human capital in the organization. Thus, the human resource department can no longer performing their traditional functions of administrative tasks, but it has to change to play a role as a source of sustained competitive advantages in support of organization that operate in a worldwide economy (G. Ferris, Hochwarter, Buckley, Harrell-Cook, & Frink, 1999). As

ANGKASA is venturing into many new businesses, does the Unit of Human Resource of ANGKASA is implementing the high performance human resource processes in the areas of selection, incentive compensation program, promotional, work processes, and training and development?The unprecedented and interconnected changes in the economic, labour-market, public policy, and technological environments which have exerted tremendous pressures on organizations to become more efficient, flexible, and innovative, in order to respond effectively to changing markets and new technology(Pradeep, 2000) to ensure sustainability.

1.2 RESEARCH FRAMEWORK

In this study, two factors have been taken into consideration in considering the implementation of High Performance Work System in ANGKASA. They are Human Resource Practices and Organizational Climates.



Independent variables are those that are chose and controlled by the researchers, in which the manipulation of the independent variables will cause an effect on the dependent variables. In this study, the independent variables are the (1) Human Resource Practices, with two demensions which are the training and development and compensation and benefit and (2) Organizational Climate with a dimensions which include the Work Organization, Flow of Communication, Decision Making, Influence and controlling power of management and bureaucracy. These two factors will be tested and analyzed to determine whether they have an influence on the high performance work systems or not. While, Dependent variables are the variable that can be influenced by other variables. In this study, the dependent variable is the high performance work system.

The sampling procedure used in this study was Simple Random Sampling method. It was chosen because of the high confidence level that every unit in the population, which is ANGKASA's employees has an equal chance of being selected as the sample. According to Sekaran (2003), simple random sampling has the lease bias and offered the most generalization.

At the time of study, ANGKASA has 690 numbers of employees throughout Malaysia. According to Sekaran (2003), by assuming the Margin of Error is .05, the appropriate number of sample is 250 units.

This study is conducted by collecting the data about the employees' perceptions, opinions, and emotion through the distribution of questionnaire where the respondents were selected randomly without any fundamental criteria. The most actual and accurate data is needed to ensure the assessment of the situation will be as close as possible to the real situation. Research needs to focus on the actual processes experienced by workers, if we are to understand how HPWSs work to influence organizational outcomes and how they could work better (Boxall and Macky, 2009).

The questionnaire used a Likert Scale with respondents indicating the degree of correspond. The questions were assessed on a seven-point scale, ranging from 1 represent extremely disagree to 7 which means extremely agree. The questionnaires were distributed to 450 employees from all level of employees in ANGKASA, and they were given a two weeks

to complete the questionnaire. Method of distribution was done through the email, by-hand, and by post. A total of 270 responses were received, giving a response rate of 60%. The valid responses were analysed using SPSS version 16.0

A structured questionnaire was developed, which consisting of four parts. PART A, of the questionnaire sought to determine the organizational climate of ANGKASA. Fourteen items were tested under this section. They are bureaucracy, rules and regulations, information sharing, the influence of groups on organizational decision making process, working methods, clearness of mission and objectives, communication, employees' charity, the openness of top management in accepting suggestions and ideas, and the influence of top management in the organization.PART B, aimed to ascertain and analysed the High Performance Work Practices that have been practiced in the organization. Among the issues that been looked into are the type of recruitment whether more to internal or external candidates, the frequency of performance evaluation, training and development programs, the openness and transparency of the organization in handling employees' grievances, types of test used in the selection processes, and compensation and benefits scheme. PART C is aimed at measuring respondent organization's human resource practices such as extensive training, empowerment, selective staffing, performance evaluation, and performance-based pay. The final part is **PART D**, is where the data about age, gender, race, level of education, period of employment and position were collected.

Although all the constructs under investigation were drawn from existing literature, a statistical procedure by SPSS was adopted to ensure its validity and reliability. Several test have been conducted to ensure the data collected are relevant and reliable to draw a conclusion about the issues been discussed such as reliability test, relationship (r) analysis, factor analysis and many more. SPSS (Statistical Package for the Social Sciences) is a

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predictive analytics software, specially developed for data analysis, statistical computing as well as data manipulation.

1.3 RESEARCH QUESTIONS

The aims of this study are embodied in the following research questions:

- 1.3.1 Does the organizational climate has an relationship on the implementation of High Performance Work Systems in ANGKASA?
- 1.3.2 Does the human resource practices has an relationship on the implementation of High Performance Work Systems in ANGKASA?
- 1.3.3 Which of the independent variables have a greater relationship on the successfulness of the high performance work systems in ANGKASA?

1.4 RESEARCH OBJECTIVES

- 1.4.1 To determine the level of High Performance Work Systems, Human Resource Practices and Organizational Climate.
- 1.4.2 To identify the correlation between Human Resource Practices and Organizational Climate and their impact on the High Performance Work Systems.
- 1.4.3 To investigate the relationship of Human Resources Practices and Organizational Climate toward the High Performance Work System.

1.5 SCOPE OF THE STUDY

This study was conducted on the employee of ANGKASA, at all departments to evaluate the effectiveness of the work processes being used. As this study was done within a short period of time, thus there is a limitation to the results obtained as thorough and comprehensive evaluation was unable to be performed. Angkatan Koperasi Kebangsaan Malaysia Berhad (Malaysian National Co-operative Movement), known as ANGKASA by most, was established and officially registered on 12 May 1971. The initial idea of the establishment was proposed by the Yang Mulia The Royal Professor Ungku A. Aziz. ANGKASA has been recognized by the government of Malaysia as an Apex Cooperative, which is responsible to ensure the consistent and continuous growth, and promote the development of cooperatives movement in Malaysia. It was also bestowed the powers by the members and cooperatives to be their voice, either domestically or internationally to the relevant authoritative bodies.

ANGKASA has made a brave leap by embarking into several incomesgenerated business activities in order to improve and stabilise its financial resources. If previously, ANGKASA is more focus on servicing its members through education program and consultancy services, but now, ANGKASA has spread its wings into the more challenging business territories such as the formation of Koperasi Perbankan Syariah ANGKASA Berhad (KOPSYA), Unit Perniagaan dan Subsidiari ANGKASA, and Perkhidmatan Potongan Gaji ANGKASA.

With these changes, it is important for ANGKASA to embrace to high performance work processes in its operational and management systems to ensure high performance in terms of financial, output, work systems, organizational climate, and Human Resources Practice and ability to fulfil members' needs and demands. The cooperative industry, while not seen as a great user of technology, nevertheless, is reliant upon fairly sophisticated computer equipment for rendering its services to its members as well as to other customers. Thus, it is about time, the high performance work systems is being implemented in ANGKASA to ensure its sustainability in the cooperative's world. As a cooperative, ANGKASA has formulated several programs for the benefits of the cooperatives in Malaysia. To name a few are, Takaful Insurance Scheme, a collaboration with Etiqa Takaful Berhad to provide insurance coverage in the form of financial assistance should the insurer die, Lil-Waqf donation program which aims to provide an avenue for cooperatives to contribute some money to the society development activities as concept-based charity endowment, ANGKASA Education Loan Fund to all cooperative's members, children and staff for the following courses either full time , part time or distance learning at Bachelor, Master and Doctor of Philosophy at public or private Higher Education Institutions and many more. This list will never end as ANGKASA continues to search new services that it can offer to its members to make its existence relevant and significant to the cooperatives movement.

1.6 PROBLEMS AND LIMITATIONS

There are some limitations faced during conducting and completing this research. The limitations are as follows.

1.6.1 Cost

In the process of conducting this study, it had involved a great deal of costs. It is not only in terms of monetary, but also time, and energy. A great deal of efforts has been put on the data collection and analysis. Not to mention the cost to give some token to the employees who had answered the questionnaire as an appreciation. Other costs are like cost of printing, and distribution of questionnaires.

1.6.2 Time Constraint

The time given to finish this study is limited for several months only. Due to this, the data collection, data analysis and search for the relevant literature reviews to supports the statements in this study is quite restricted to a certain perspective only. By taking this factor

into consideration, comprehensive opinions on the issue been discussed might be difficult to produce.

1.6.3 Information and Data

The sample where the data were collected is relatively small that made the thorough and conclusive conclusion about the scenario becomes restricted to certain limit. The questionnaires were tested on a relatively small sample of employees; thus, their power to detect smaller effects was limited (Christopher & Kevin, 2003).

1.7 THE SIGNIFICANCE OF THE STUDY

This study is significant to the development of cooperatives in Malaysia as it can be used as a reading material should they want to implement the high performance work systems in their institutions. As high performance work systems are striving for an efficient management of resources and risks to ensure the sustainability and competitiveness, history has proven of the collapsed of many enterprises because of the ignorance or failure to master this concept.

High performance work systems are not about the application of the high tech or sophisticated machinery or equipment in the work processes. It is about the management sensitiveness to the overall surrounding of the organization, from the position of the lowest end to the highest end, internal as well as external environment that give an effect to the organization.Undeniably, a supportive organizational climate and an employee-friendly human resource practices, will be able to contribute to the increment in the organizational performance. It is a big hope that this study will contribute some advantages to several parties that have a part in the growth and development of cooperatives in Malaysia.

• Cooperators

By having this study, surely it will benefit the cooperators in a way of helping them to formulate a more efficient and effective methods of handling their resources in a more professional way and be able to produce a high performance outcomes.

• Academically

Most of the researches on the issue of high performance work systems were done to the big or medium size profit oriented enterprises. Very few studies have been conducted to the non-profit organization, or cooperatives. Hence, this study should be able to expand the boundary of research in this issue which is beneficial to the academicians or researchers should they want to acquire more information about the high performance works systems from the perspective of the cooperatives in Malaysia.

• University

This study will benefit the university as it will provide more exposure to the students who are interested to know more about cooperatives or who are searching data about cooperatives for the purpose of their study. Since, a copy of this project will be kept in the university's library for reference, it will add to the number of volume of research materials.

CHAPTER 2

LITERATURE REVIEW

2.0 INTRODUCTION

This chapter presents related literature on High Performance Work Systems, Human Resource Practices, and Organizational Climate. The review of the literature is considered necessary in order to formulate the research model, hypotheses and methodology. The first section of this chapter will be concentrating on the definitions, and issues of conceptual, and the theoretical consideration which is literature review is explored.

2.1 CONCEPTUAL DEFINITION OF HIGH PERFORMANCE WORK SYSTEMS

This paper will begin by unpacking the meaning of High Performance Work System, Human Resource Practices and Organizational Climate respectively. There are so many definitions that have been proposed by the academician as well as practitioners in the industry, with the intention to make others understand more and have a clearer picture about the issue of High Performance Work System.

Bohlander & Snell (2004) has defined HWPS as "a specific combination of HR practices, work structures, and processes that maximizes employee knowledge, skill, commitment and flexibility". While Nadler, Gerstein & Shaw (1992) says that the High Performance Work System is an organizational architecture that brings together work, people, technology and information in a manner that optimizes the congruence of fit among them in order to produce high performance in terms of the effective response to customer requirements and other environmental demands and opportunities.Huselid (1995) described High Performance Work Systems as the systems which include rigorous recruiting and selection protocols, performance management, and incentive compensation systems, and employee training and development activities that are designed to acquire, refine, and

reinforce employee skills and behaviors necessary to implement the firm's competitive strategy.

Unfortunately, there is no universal definition of performance (Anderse'n, 2010). Performance from process perspective involves the process of transformation from inputs to outputs in order to accomplish specific results, whereas, from an economic perspective, performance is focused on efficiency and effectiveness of the organization in managing their cost and outcome (Chien, 2004; Jarad, Yusof, & Shafiei, 2010). The definition of performance in the context of the cooperatives might be broader from the ordinary profit oriented business entity. For the cooperatives, apart from the above, they also have to ensure that part of the profit obtained must be used for the benefits of their members. Bartram, Robertson and Callinan (2002) have suggested four kinds of performance, which are the economic (productivity, profitability, etc.), technological (development of new products, etc.), commercial (market share, a specific niche, etc.), and social (effects on customers, suppliers and the public at large).

The High Performance Work Systems, sometimes known as high involvement or high commitment organizations, are organizations that use a distinctive managerial approach that enables high performance through people (John, 2001). It includes rigorous staffing procedures, employee participation, job redesign, investments in training, and alternative approaches to compensation (skill-based pay and group incentive compensation), are widely believed to improve organizational performance through their impact on employees' competencies, discretionary authority, and motivation (Bailey 1993; Combs, Liu, Hall, and Ketchen 2006; Delaney and Huselid 1996; Huselid 1995; Pfeffer 1994). They signify a strategic approach to human resource development and utilization, emphasizing the need to develop a highly skilled, highly flexible, and highly motivated work force and a human resource management system that promotes creativity and initiative among employees

(Pradeep, 2000). In other words, it is an "ideas about how to obtain profit through people" (Pfeffer, 1998).

In assessing the high performance work systems, the research needs to focus on the actual processes experienced by workers, if we are to understand how HPWSs work to influence organisational outcomes and how they could work better (Peter and Keith, 2009).With the help of leaders who develop a clear vision, mission, and goals, HPWS workers are expected to respond in non-programmed ways to changing circumstances. Workers in HPWS have shed the mentality of agents; they have become owners in their outlook (John, 2001).

HPWS organizations use an approach that is fundamentally different from the traditional hierarchical or bureaucratic approach, otherwise known as the Control- Oriented Approach (Lawler, 1992). According to Lawler (1992) again, companies using the control-oriented approach, assume that work should be simplified, standardized, and specialised and that supervision and pay incentives should be used to motivate individuals to perform their task well. In addition, Lawler add-up, involvement-oriented organization, which nearly similar to the HPWS, should be structured so that individuals at the lowest level in the organization not only perform work but also are responsible for improving work methods and procedures, solving problems on the job, and coordinating their work with that of others. Employees also can and should be expected to operate without a controlling supervisor (Lawler, 1992). The main idea of High Performance Work Systems are to create an organization based on employee involvement, commitment and empowerment, not employee control (John, 2001).

The dimensions of high performance work systems:
To make it simpler, Bradley, Kevin and Dianne (1999) have segregated all the components of HPWS into five elements which are:

- (1) Self- managing work teams,
- (2) Employee involvement, participation, and empowerment,
- (3) Total quality management,
- (4) Integrated production technologies, and
- (5) The learning organization.

Jayanth, Cornelia & Shawneek (1999), have outlined the dimensions of HPWS for improving the performance of the organization. They are (1) top management commitment (2) communication of goals (3) employee Training (4) cross functional teams (5) cross training (6) employee autonomy (7) employee impact (8) broad jobs (9) open organizations, and (10) effective labor management relations.

In addition, Evans andDavis (2005) argue that work practices such as selective staffing, self-managed teams, decentralized decision making, extensive training, flexible job assignments,open communication, and performance-contingent compensation.

2.2 CONCEPTUAL DEFINITION OF HUMAN RESOURCE PRACTICES

The human resource practices can be defined as a philosophy, policy, system and practices that can affect the behavior, attitudes and performance of employees (Noe, Hollenbeck, Gerhart, & Wright (2010). The Human Resource practices can also be referred to as, the process of managing human talent to achieve an organization's objectives (Snell &Bohlander, 2007).

Human Resource systems involve two broad types of practices- work practices and employment practices. Work practices are to do with the way the work itself is organised, including its normal structured (e.g. Taylorised jobs, supervised group work, self-managing teams, highly autonomous professional jobs) and any associated opportunities to engage in problem solving and change management regarding work processes (such as quality circles and team meetings). While, employment practices include all the practices used to recruit, deploy, motivate, consult, negotiate with, develop and retain employees, and to terminate the employment relationship (Whitfield and Poole, 1997; Godard, 2004).

The implementation of High Performance Work Human Resource practices can be seen as a strategic approach taken by the Human Resource Department to make human resource as a business partner in the organization by adopting a more critical role in ensuring the competitiveness and successfulness of the organization. It "demonstrates the importance of HRM practices for organizational performance" (Delery and Doty, 1996). According to the resource-based view, firms with superior resources will be able to conceive of and implement unique strategies that rivals will find it difficult to emulate (Barney,1991). Since the competitors will enable to imitate the advantage of physical and financial resources, practitioners and researchers have shifted to the uniqueness of human resources as factors that could lead to sustainable competitive advantage of the firm (Barney, 1991; Barney, Wright, & David, 2001).

Human Resource Management systems provide additional value when they are purposively designed to be internally consistent and are thereafter linked with firm competitive strategy (Butler, Ferris, & Napier, 1991; Cappelli & Singh, 1992; Jackson & Schuler, 1995; Milgrom & Roberts, 1995; Ulrich & Lake, 1990; Wright & MacMahan, 1992). The behavioral perspective (Jackson, Schuler, & Rivero, 1987) suggests that an effective HR management system will acquire, develop, and motivate the behaviours necessary to enhance firm performance (Bailey, 1993; Jackson et al., 1987; Pfeffer, 1994; Schuler & MacMillan, 1984).

HR strategies that successfully develop and implement a coordinated HPWS create "invisible assets" (Itami,1987) that both create value and are difficult to imitate. According to "Resource- Based" view of the firm (Barney,1991) it is clear that if these HR management systems are to in fact create sustained competitive advantage, they must be difficult to imitate.

Christopher & Kevin (2003) suggest that specific, targeted HR practices may be more effective than general practices. The appropriateness of a set of HR practices may depend on the competency that a firm is trying to develop (Snell, Youndt and Wright,1996). Thus, it is important to identify a set of HR practices that firms can use to systematically develop. These findings suggest that firms should use specific sets of HR practices if they are trying to develop and reinforce a particular employee-based resource or competency (Christopher et al.,2003).

The key dimensions of high performance Human Resource practices have been clearly identified by Pfeffer (1988) in "The Human Equation", which are as follows, (1) employment security (2) selective hiring of new personnel (3) self-managed teams and decentralization of decision making as the basic principles of organizational design (4) comparatively high compensation contingent on organizational performance (5) extensive training (6) reduced status distinctions and barriers, including dress, language, office arrangements, and wage differences across levels and (7) extensive sharing of financial and performance information throughout the organization.

Another dimensions as suggested by (Nazlina et al., 2011), activities of HRM include HR planning, staffing, training and development, performance management, compensation management, safety and health and employee relations.

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2.3 CONCEPTUAL DEFINITION OF ORGANIZATIONAL CLIMATE

The meaning of organizational climate has been explained by Schneider (1975) where he has defined organizational climate as a mutually agreed internal (or molar) environmental description of an organization's practices and procedures. In addition, Shadur, Mark, Kienzle, Rene, and Rodwell (1999) agree that organizational climate refers to a systematic phenomenon that pervades an organization and its parts and influences an individual's performance on the job.

Although the research studies on organizational climate have used slightly different definitions and measure of climate, they all seem to agree that climate refers to a systematic phenomenon that pervades an organization and its parts and influences an individual's performance on the job (Shadur, Mark, Kienzle, Rene, and Rodwell, 1999).

According to Gerhart & Milkovich (1990), in the case of organization's climate, whether it is supportive or not, is determined solely by an employee's perceptions of the work climate. Climate perceptions are seen as a critical determinant of individual behaviour in organisations (Carr at al., 2003). Schneider & Hall (1972) note that climate perceptions emerge as a result of the employee's numerous activities, interactions, and other daily experiences with his or her organization. Perceived climate may be related to a number of outcome variables such as individual job satisfaction, involvement in the job, and effort. Thus, it can be said that organizational climate does influence effort and job satisfaction, or day-to-day job experiences (Schneider and Hall,1972).

Climate has variously been conceptualised as an individual attribute (Wallace, Hunt, Richards, 1999) measurable by a multi-trait matrix (Schneider and Bartlett, 1970), a subsystem phenomenon (Powell and Butterfield, 1978), and an organisational entity (Campbell, Dunnette, Lawler & Weick, 1970).

It is held to be a summary perception of how an organisation deals with its members and environments, and thus develops specifically from internal factors primarily under managerial influence (Ostroff and Schmitt, 1993).

Jones and James (1979) derived six dimensions of climate:

- (1) leadership facilitation and support;
- (2) workgroup co-operation, friendliness and warmth;
- (3) conflict and ambiguity;
- (4) professional and organisational esprit;
- (5) job challenge, importance and variety; and
- (6) mutual trust.

Rhoades and Eisenberger (2002) and Payne and Pugh (1976), they suggest that organizational climate includes, among other things, attitudes, feelings, values, norms, interactions, and satisfactions. In addition, Lichtman (2007) say that climate consists of perceived factors, such as the opportunities to develop, grow, advance, a challenging job, etc.

Another theorist, Moran and Volkwein (1992) have proposed that organizational climate is a relatively enduring characteristics of an organization which distinguishes it from other organizations: (a) and embodies members collective perceptions about their organization with respect to such dimensions as autonomy, trust, cohesiveness, support, recognition, innovation, and fairness; (b) is produced by member recognition; (c) serves as a basis for interpreting the situations; (d) reflects the prevalent norms, values, and attitudes of the organizations culture; and (e) acts as a source of influence for shaping behavior.

While, Jones and James (1979), say that the dimensions of organizational climate consists of (1) conflict and ambiguity, (2) job challenge, importance and variety, (3) leader facilitation and support, (4) workgroup cooperation, friendliness and warmth (5) professional and organisational esprit, and (6) job standards.

2.4 THE ROLES OF HUMAN RESOURCE PRACTICES AND ORGANIZATIONAL CLIMATE IN THE IMPLEMENTATION OF HIGH PERFORMANCE WORK SYSTEMS

Previous research on Human Resource Management widely accepted that employees create an important source of competitive advantage for the firms (Barney, 1991; Pfeffer, 1994). The importance of human resource functions in the organization is further enhanced by the (Raduan & Naresh, 2006), firms may have the capital and technology, but it is Human Resources (HR) that will help firms face the challenges of business globalization.

The emphasize on the high performance human resource practices has increasingly gaining serious attention from the policy maker in the organization "because management is making a major investment in advanced technology in the workplace" (Wall, Jackson & Davids, 1992) in order to ensure organizational competitiveness, sustainability, and being ahead from its competitors in a globalised market.

Maimunah, Lawrence & Maran (2009) say "that in current global market, companies are composed by competitors, regardless of industry. To develop a competitive advantage, it is important that firms truly leverage on the workforce as a competitive weapon. Firms seek to optimize their workforce through comprehensive human capital development programmes not only to achieve business goals but most important is for a long term survival and sustainability". Some empirical studies have support the hypothesis that firms, which align their HRM practices with their business strategy, will achieve superior outcomes (Bac & Lawler, 1999). The "superior outcomes" as mentioned by them can be referred to as High Performance Work Systems.

Human Resource Management systems provide additional value when they are purposively designed to be internally consistent and are thereafter linked with firm competitive strategy (Butler, Ferris, & Napier, 1991; Cappelli & Singh, 1992; Jackson & Schuler, 1995; Milgrom & Roberts, 1995; Ulrich & Lake, 1990; Wright & MacMahan, 1992). The behavioral perspective (Jackson, Schuler, & Rivero, 1987) suggests that an effective HR management system will acquire, develop, and motivate the behaviours necessary to enhance firm performance (Bailey, 1993; Jackson et al., 1987; Pfeffer, 1994; Schuler & MacMillan, 1984).

The role of HR practices then is to help a firm attract and develop employee capability (e.g. through selective hiring, developmental performance appraisal, and comprehensive training) (Macky and Boxall, 2007).

HR practices may also elicit organizationally desirable behaviour by providing both the opportunity and motivation for discretionary effort. This includes HR practices that seek directly to modify performance behaviour, such as pay-for-performance, as well as highinvolvement practices that seek to motivate by providing employees with an opportunity to exercise voice and influence over their work (Lawler, Mohrman and Ledford, 1998).

HR practices may also aid employee retention by building commitment to their employing organizations thereby retaining human capital as well as improving productivity by reducing dysfunctional employee turnover (McElroy, Morrow and Rude (2001); Shaw, Gupta and Delery (2005)).

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According to Lichtman (2007), "if the individual perceives that the organizational climate in which he or she is working is supportive in terms of the opportunities for growth, advancement, challenge, etc., then this will result in an increase in the individual's effort on the job and feelings of job satisfaction. On the other hand, if the individual perceives that the climate is not supportive in terms of the previously mentioned factors, then this will result in a decrease in the individual's performance and feelings of job satisfaction. In other words, how people perceive their organization in terms of climate is important in terms of how they feel about their jobs and how much effort they expend to perform their jobs".

There seems a clear theoretical basis for presupposing that HR practices included under the HPWS rubric cam serve to modify employee behaviour, and the context within which that behaviour occurs, in ways that enhance employee performance (Macky and Boxall, 2007).

2.5 LIMITATIONS OF HIGH PERFORMANCE WORK SYSTEM PRACTICES

Despite positive evidence for the effectiveness of high performance work systems, studies to date indicate that the adoption of these types of practices is somewhat limited and sporadic (Godard, 2004; Roche, 1999). Although, in theory, HPWSs can provide win-win benefits for firms and employees (Machin and Wood, 2005) but can also generate win-lose combinations and even lose-lose outcomes (Boxall and Purcell, 2003).

In many literatures, high performance work systems have been defined in simple terms, the actual design and implementation of an HPWS is not quite as simple. The design of an HPWS is not something that can be easily modelled and recreated within different organizations; each organization will come out of the design process with a unique system that works for that organization (Brown, 2006). The organizations *"should try the design,*

closely observe how it works in practice. Identify what works and what doesn't, and then make the appropriate adjustments" (Nadler, D.A., Nadler, M.B., & Tushman (1997).

While a large body of research has demonstrated the positive impact of highperformance practices on the financial performance of organizations, the impact on the wellbeing of workers is less well known. But the limited evidence that is available suggests that productivity gains have come at the expense of workers and that the adoption of highperformance practices has been accompanied by a deterioration in the quality of work environment is a fundamental problem for the sustainability of high-performance systems (Pradeep, 2000).

According to (Boxall, & Macky, 2007), "using a randomly selected national population sample, clear evidence was found for a positive relationship between HPWS practices and the attitudinal variables of job satisfaction, trust in management, and organizational commitment, implying that HPWS can provide win-win outcomes for employees and employers. However, the study also tests-from an employee perspective – the complementarities thesis- and finds negative interaction effects among HPWS practices.

Cappelli and David (2001), for example, fail to find significant interaction effects, with the possible exception of a synergy for profit-sharing with self-managed teams, while Godard (2001) finds a plateau effect in HPWS adoption. In the latter case, Canadian firms with low to moderate HPWS adoption gained the most compared to those with high adoption levels, suggesting a case of "diminishing returns at higher levels of adoption, rather than the increasing returns predicted by the complementarities thesis" (Godard, 2004:354) cited in Boxall & Macky (2007).

Guest, Conway and Dewe (2004) also found little evidence for meaningful interaction terms between HR practices in relation to the organizational outcomes of performance, innovation, employment relations and labour turnover. Appelbaum, Bailey, Berg & Kalleberg (2000) also found no evidence for interaction effects on employee attitudes and concluded that 'although theory suggest that system effects are likely to be important in the analysis of plant performance, there is no basis for this expectation in the analysis of worker outcomes'.

In the striving of the high performance outcomes in the organization, the reactions or employees' feeling in the implementation of the system has been neglected. According to (Grant and Shields, 2002; Guest, 1999, 2002; Ramsay, Scholarios & Harley 2000), while employees may be placed as central to mediating the impact HWPSs have on organizational performance, their reactions to such practices have been rather neglected in the HPWS research to date.

In a unionized company, unions may materially influence members' attitudes and behaviors towards management innovations (Turner, 1991). As Godard (2004) pointed out, some have argued that the adoption of HPWSs is antithetical to the interests of unions (Huselid and Rau, 1997; Kelly, 1996).

As noted by Kizilos and Reshef (1997), in unionized settings, union leaders will likely influence the extent to which HR innovations are successful or unsuccessfully implemented. Ortiz (1999) found that unions in the U.K. subsidiaries of a U.S. multinational corporation resisted the introduction of team-working because it challenged their core interest in the control of work organization.

2.6 IMPACT OF HIGH PERFORMANCE WORK SYSTEMS TO BUSINESSES

In terms of HPWSs, however, most researchers have focused on economic performance criteria, as Godard's (2004) evaluation of HPWS studies indicates. This means that HPWSs, to be deemed successful, need primarily to enhance cost-effectiveness. If the

financial benefits do not exceed the costs, then the HPWSs are not economically rational for firms (Peter and Keith, 2009)

The common thread is that achieving and sustaining high levels of performance requires a positive workplace environment and practices that develop and leverage employees' knowledge and ability to create value (Eileen, Jody and Carrie, 2011).

While the specific practices need to be tailored to fit different industries and occupations, they generally include selection, training, mentoring, incentives, knowledge-sharing, partnership-based labor management relations and other shared decision making mechanisms (Horgan and Muhlau, 2006).

These practices are most effective when they are implemented together and in concert with new capital or technological investment (MacDuffie (1995); Dunlop and Weil (1996); Ichniowski, Shaw and Prennushi (1997); Bratt (1999); Appelbaum, Bailey, Berg and Kalleberg (2000)).

Researchers have documented the impact of high-performance work practices on efficiency outcomes such as worker productivity and equipment reliability (Youndt, Snell, Dean, Lepak (1996); Ichniowski, Shaw and Prennushi (1997), on quality outcomes such as manufacturing quality (MacDuffie (1995), customer service, and patient mortality (West, Borrill, Dawson, Scully, Carter, et al. (2002), on financial performance and profitability (Huselid (1995); Delery and Doty (1996); Collins and Smith (2006)) and on a broad array of other performance outcomes (Appelbaum, Bailey, Berg and Kalleberg (2000); Bartel (2004); Wright and Gardner (2006)).

Although some studies have found mixed results regarding performance differences associated with these work practices (Cappelli, Neumark (2001), many other studies have found that these work practices explain significant performance differences among auto assembly and parts plants, steel mills and finishing lines (Ichniowski, Shaw and Prennushi (1997), call centers (Batt (1999), airlines (Gittell (2003), banks (Richard and Johnson (2004),health care clinics and hospitals (Gittell, Seidner and Wimbush (2009), and high technology firms (Cutcher-Gershenfeld (1991); Collins and Clark (2003).The magnitude of the effects is substantial, with performance premiums ranging between 15 percent and 30 percent (Eileen, Jody and Carrie, 2011).

High-performance work practices can be shown to work from three different perspectives:

- Fostering development of human capital, creating a performance advantage for organizations through processes such as increased employee skill development and improved customization by employees in service industries (Gibbert (2006); Fried and Hisrich (1994); MacMillan, Zemann and Subbanarasimha (1987); Snell and Dean (1992); Batt (2002)).
- (2) Enhancing the motivation and commitment of employees, creating an organizational and labor-management climate that motivates and support employee engagement in problem solving and performance improvement (Osterman (1988); Mahoney and Watson (1993); Tsui, Pearce, Porter and Hite (1995); Appelbaum, Bailey, Berg and Kalleberg (2000)).
- (3) Building organizational social capital, which facilitates knowledge sharing and the coordination of work, and thus improve performance (Nahapiet and Ghoshal (1998); Tsai and Ghoshal (1998); Leana and Van Buren (1999); Levin and Cross (2004); Gittell (2000); Gittell, Seidner and Wimbush (2009)). Research in settings ranging from public schools to airlines has demonstrated the added benefits to be realized when work practices encourage the simultaneous development of human

capital and social capital among employees (Leana and Pil (2006); Gittell (2000); Pil and Leana (2009); Gittell (2009)).

A combination of formal and informal mechanisms for employee voice has been found to improve the productivity effects associated with implementing high-performance work practices compared to implementing the same practices with just informal voice mechanisms or no employee voice (Black and Lynch (2004); Coats (1999)).

When combined with union representation, these work systems tend to be associated with higher wages, some of which are achieved through mutual gain-sharing or similar compensation practices (Appelbaum et al. (2000); Kochan, Eaton, McKersie, and Adler (2009)).

Vandenberg, Richardson and Eastman (1999) found that high-involvement work practices had both a direct positive influence on voluntary employee turnover and organizational return on equity, and an indirect one via improved employee job satisfaction and organizational commitment. Using an index of high-commitment HR practices, Guest (1999) found that employees who reported experiencing higher numbers of these practices reported higher job satisfaction.

Management's adoption of high-performance work practices should lead to increased trust to the extent that such actions are seen by employees as demonstrating managerial competence, reduce their perceptions of vulnerability or threat, and are otherwise seen to be in the worker's interest (Macky and Boxall, 2007).

2.7 PREVIOUS RESEARCH FINDINGS

Guthrie's(2001) survey of 164 New Zealand firms which shows that when firms pursue high-involvement work practices, lower employee turnover is consistent with higher productivity. Conversely, when firms pursue more control-oriented forms of work organisation, higher employee turnover is consistent with higher productivity. In other words, firms which decide to make the costly investment in high-involvement work processes, and the related skills, will have better economic performance in conditions of low labour turnover (Boxall and Macky, 2009).

Huselid (1995), using survey data from 968 firms in many industries has found evidence consistent with the hypothesis that companies' use of systems of high performance work practices (1) diminishes their employee turnover and (2) increases their productivity (sales per employee) and corporate financial performance (stock market value to book value).

MacDuffie (1995) studied the relationship between "bundles" of interrelated and internally consistent human resource practices (not individual practices) and productivity and quality in 62 auto assembly plants throughout the world using questionnaires and site visits. Some plants used HR bundles associated with mass production involving a narrow division of labor and low commitment policies. Some plants were in between. He founds strong, statistically significant evidence supporting the hypothesis that innovative bundles of HR practices are positively related to both productivity and quality.

Ichniowski, Shaw and Prennushi (1997), where they studied 36 homogeneous steel finishing lines owned by 17 companies to determine whether clusters of complementary HRM practices are related to productivity. Productivity was measured by the percentage of uptime (time not involving delays). The evidence from their careful regression analyses, which control for all relevant differences in the production lines indicates that systems of innovative HRM practices have a statistically significant large and positive association with workers' productivity, while changes in individual HRM practices have little or no effect. Ichniowski and Shaw (1999) examined evidence on the performance difference between Japanese and US steel manufacturing companies. The Japanese companies utilized HRM systems featuring problem-solving teams, employment security, flexible job assignments, training, careful employee selection, and high levels of labor-management communication. The US companies, had hour levels of HRM systems, from traditional to innovative. The regression analyses indicated that the Japanese steel companies performed better in both productivity and product quality that the US companies. The US companies that utilized innovative HRM systems equalled the productivity and came close to the quality performance of the Japanese companies.

In a telephone survey of 775 New Zealand full-time employees, Macky and Boxall (2008) find that greater experience of high involvement work processes is associated with higher job satisfaction. Macky and Boxall's (2008) findings parallel those of Bauer (2004), whose analysis of the European Survey on Working Conditions 2000 shows that workers particularly value improvements in autonomy and communication rather than practices such as teamwork and job rotation perse. Godard (2001), his key finding is that while modest levels of 'high-performance' may benefit employees, high levels become stressful.

Lunenburg's research (Lunenburg, 1983), demonstrated that students' perceptions of humanistic school climate related in a appositive manner to their personal motivation, task orientation, problem solving, and attitude toward learning.

2.8 HYPOTHESES OF THE STUDY

H1: There is a relationship between Human Resource Practices in the successfulness of the implementation of High Performance Work System in Angkasa. H2: There is a relationship between Organizational Climate in the successfulness of the implementation of High Performance Work Systems in Angkasa.

2.9 CONCLUSION

Based on the conceptual definitions and dimensions of the variables, and discussion of the impacts and supports from the previous researches, the researcher has showed the significant of high performance work systems in ensuring the competitiveness and sustainability of the organization. The next chapters will do more exploration regarding this issue and discussion will be made to answer the hypotheses of the study.

CHAPTER 3

RESEARCH METHODOLOGY

3.0 INTRODUCTION

This chapter presents a description of the research design and methodology used in this study. It also provides an overview of the research study, a description of the instrument selected for data gathering, the population and sample as well as the survey procedures used.

Research methodology can be in the form of (1) quantitative or (2) qualitative. Quantitative type of research method is used when the researcher measuring the number of times a person does something under a certain circumstances. While qualitative is used when the researcher is making a verbal interview to ascertain the feeling of the respondent about certain issue or circumstances. Neither one is better than the other, despite, a comprehensive research normally will incorporate both of these methods in their research in order to get a better results, although, in a normal condition, this is not always possible due to time and financial constraints.

3.1 RESEARCH DESIGN

The study was conducted by using the quantitative method. According to Robert, Brian & Sekaran(2001), a quantitative study is a research method which involve the analysis of data or information that are descriptive in nature and usually not qualified. The respondents of the study were the employees of ANGKASA where the distribution of questionnaires was by using the simple random sampling. The data collected was solely through the questionnaire. No interview with the personnel of ANGKASA has been done. After the data was gathered, the analysis is done to achieve the research objectives.

In this study, two independent variables have been selected for this study, namely (1) human resource practices and (2) organizational climate. The dimensions under the human resource practices training and development as well as compensation and benefit. While the dimensions for the organizational climate are the work organization, flow of Communication, decision making process, influence and controlling power of management, and bureaucracy. These dimensions were selected because they have previously identified as those likely to have the greatest impact on the organizational performance. There is no fix number of dimensions to use, but it all depends on what the researcher tries to find out from the study conducted. For example, Youndt, Snell, Dean and Lepak (1996) in his summary of best HRM practices offered a very comprehensive list of diverse HRM practices used by various studies, Delery and Doty (1996), Delaney and Huselid (1996) and Way (2002) used seven of different practices, Wang and Zhang (2005) applied ten practices and Theriou and Chatzoglou (2008) utilized nine practices in their study. Although only two independent variables were used in this study, but the researcher in the opinion that the dimensions chosen for these two variables are adequate enough to answer all research questions, accurately and precisely.

In a quantitative study, the aim is to determine the correlation between one variable (independent) and another variable (dependent) in a population. Quantitative research

designs can be in the form of (1) descriptive or (2) experimental. In the case of this study, a descriptive approach will be used, thus subjects will only be measured once with an intention to establish association between the two types of variables.

For an accurate estimation of the relationship between variables, about 450 questionnaires had been distributed to the employees of ANGKASA. They were given two weeks for them to answer the questionnaire. Currently, ANGKASA has about 690 numbers of employees. Based on Sekaran (2003), the amount of sample that is considered sufficient to construct a concrete conclusion for the relationship is 249 numbers of employees. The researcher has able to collect 261 samples out of 450 questionnaires distributed which constituted a percentage of 58%. The basic rule is that, the estimate of the relationship is less likely to be biased if the researcher is able to collect a higher participation rate in a sample selected randomly from a population (Will, 2000).

This study is a quantitative type of research where the statistical analysis such as regression analysis will be used to determine the empirical relationship between the independent variables and dependent variables. Been a cross sectional in characteristic, the data collected will be analysed and statistically concluded only for once.

3.2 LOCATION OF THE STUDY

The study was conducted to the employees of the Angkatan Koperasi Kebangsaan Malaysia Berhad (ANGKASA) where the distribution of questionnaires were done randomly irrespective of their age, gender, units or departments that they are working, and years of working.

As explained in chapter one, ANGKASA has 690 number of employees throughout Malaysia. It has several divisions that consist of (1) Administration, (2) Division of 4P, (3) Division of Social Services and Affairs, (4) Finance Department, (5) Credit and Banking Services, (6) Unit of Coop's Business Development and Entrepreneurship, (7) Corporate Communication, (8) Audit and Risk Management, (9) Unit of ANGKASA's Businesses and Subsidiaries.

In this cross-sectional study, the strength of the influential forces that those two independent variables have on the High Performance Work Systems in Angkasa is ascertained. In doing so, several items have been tested such as employee-employer relationship, autonomy, level of employee involvement, information sharing, and rewards and compensation scheme, and many more. What we are looking for in this survey is how conducive the organizational climate in ANGKASA to promote the practices of HWPS among its employees, as well as whether the human resource practices implemented is encouraging or motivating employees to perform better, happily and competently.

3.3 POPULATION AND SAMPLING PROCEDURE

Population refers to the entire group of people, events, or things of interest that the researcher wishes to investigate, while sample is a subset of the population (Uma and Roger, 2009).

The survey was done to the employees of ANGKASA. In the initial part of the study, a pilot test was conducted, where 100 questionnaires were distributed to the employees of ANGKASA. The basis for distribution is simple random sampling where all employees have an equal chance of being selected in the survey. Out of 100, 50 questionnaires were successfully collected in the pilot test. After the researcher was confident that the questionnaire of the study is able to measure the items been tested and able to collect data needed to answer the research questions through the reliability analysis where all the Cronbach's Aplha calculated are 0.70 and above, only then 450 questionnaires was distributed to the employees for the real survey. In this distribution, out of 450 questionnaires

distributed, 261 respondents had returned the questionnaire to the researcher, which has meet the criteria suggested by Krejcie, Robert, Morgan, Daryle (1970), suggested a guidelines for sample size decision so as to ensure precision and confidence in determining the sample size.

The population of this study was the employees of Angkatan Koperasi Kebangsaan Malaysia Berhad (ANGKASA). Out of 690 employees, 450 employees have been identified and were given a questionnaire for them to answer. Out of 400 selected respondents, only 261 employees returned the questionnaire to be analysed.

The sampling method used is probability sampling (simple random-sampling). This method was chosen because of the equal chance that the population being selected as a subject. Probability sampling: it is the one in which each sample has the same probability of being chosen. (Paula andJusto, 2001).

According to Uma (2009), sampling design and sampling size are very important. That is, if data collected from people, events, or objects that cannot provide the correct answers to solve the problem, the survey will be in vain. A proper sampling design and size helps the researcher to draw conclusions that would be generalized to the population of interest.

3.4 DESIGN OF QUESTIONNAIRE

The questionnaire is one of the main tools for collecting data from the respondents. The types and design of questionnaire that were used depend on the studies that the researcher wants to carry out.

According to (Uma and Roger, 2009), a questionnaire is a pre-formulated written set of questions to which respondents record their answers, usually within rather closely defined alternatives. They add that, questionnaires are an efficient data collection mechanism when the researcher knows exactly what is required and how to measure the variables of interest.

Getting the question right is the most important step because a poorly focused questions lead to unclear decisions about what research to include and how to summarise it (Higgins and Green, 2005). .The questions constructed in the questionnaire for this study were derived from the combination of several researches done by the previous researchers. The focus is to identify the scope of question, the depth of the particular question to answer the research questions and example of sentence for questionnaire construction. The questionnaire on the organizational climate was taken from a combination of two sources, which are from the previous research conducted by BERNAS to its employees to measure their perception on BERNAS organizational climate in 1980 and was taken from James and Jones (1976) where they have developed the items for their questionnaire after an extensive review of the literature. From the literature they identified 35 concepts related to organisational climate. Eleven concepts related to job and role characteristics, eight related to leadership characteristics, four to work-group characteristics and twelve comprised subsystem and organizational level characteristics. While the framework of the questionnaire for human resource practices was formed by referring to several studies conducted by the previous researches, which among them are the study conducted by Khurram, Sajid and Muhammad (2008) where they conducted a study on the impact of human resource practices on perceived performance of university teachers in Pakistan. Among the items that have been identified from this source are employee's feeling about their work, good communication with supervisor, supportive supervisor and co-workers, ability to balance between work life and home life, being recognized when good job was performed, clear expectation from the employer or superior, training to do the work, company policy and procedure, salary, and benefits. For the high performance work systems, the items of survey in the study done by

Delaney, Lewin, and Ichniowski (1989) have also been analysed. The questionnaire constructed by them covered the area of personnel selection, performance appraisal, incentive compensation, job design, grievance procedures, information sharing, attitude assessment, and labor-management participation.

The respondent rated their level of agreement with each items on a seven-point respondent format as shown as Table 1 below.

Choices	Score
Strongly disagree	1
Moderately disagree	2
Slightly disagree	3
Neutral	4
Slightly agree	5
Moderately agree	6
Strongly agree	7

Table 1: Seven-Point Respondent Format

3.4.1 VARIABLES AND MEASURES

In this study questionnaire was distributed to respondents in Malay version (Bahasa Malaysia). A total of 62 questions contain in the questionnaire which is divided into four sections respectively which is section A, Section B, Section C and Section D. On every

section of the questionnaires has its own instruction and guideline to the respondent. A sevenpoint respondent format have been used for section A, B, C since it provides a finer level of detail and does not place undue cognitive burden on the respondent (Lissitz and Green, 1972; Miller, 1956: Preston and Colman, 2000). In addition seven appears to be optimal for information processing purposes and scale reliability (Churchill and Peter, 1984; Green & Rao, 1970). Demographic information for section D fundamentally considered as nominal (Devellis,2003; Nunnally, 1959; Nunnally and Bernstein, 1994; Roberts, 1994; Suppes and Zinnes, 1963).

3.4.2 INTERPRETATION OF VARIABLES

Section A cover the area of organizational climate. It measures the agreeable level of employees to the organizational climate of ANGKASA. This section contains 17 questions. Section B is about the high performance work systems. This section measure the practices been used in the organization which particularly relate to the area of training and development, and compensation and benefits. It comprises of 13 questions. Section C handles the issue of human resource practices. This section measures the issues such as staff selection, promotion, and strategic human resource practices. This section consists of 26 questions. Section D is about the background of the respondent. The last section of the questionnaire requires information about personal and demographic data of respondent. Questions consists of gender, race, educational level, age, year of working and position hold in the organization.

3.5 DATA COLLECTION METHOD

Data gathering is an important process in this study. There are several methods in data collection such as primary and secondary data collection. Primary data is gathered and observed directly from first-hand experience, which in this case by using a questionnaire. In

this research, the researcher also used secondary data to gather some of information through external sources such as units or departments in ANGKASA itself.

The questionnaire is used as the main instrument to collect data from the respondents. The advantage of using questionnaire includes the relatively low cost, no interview bias, no prior arrangements are needed and the facts of anonymity among respondents (Schermerhorn, Hunt & Osborn, 2000). The distribution of the questionnaire is to the employees of ANGKASA irrespective of their job positions, gender, years of working. The researcher has explained the purpose of the study to the respondents. The researcher distributed the questionnaire to the target respondents and they were given one week to complete it. Some of them have posted the questionnaire to the researcher by mail, and some had been collected by the researcher by hand.

3.6 PILOT TEST

A pilot test is a scientific type investigation in terms of a newly developed test's validity and reliability in regards to its intended purpose. The process of conducting a pilot test involves administering the test to a small group of the test's target audience and then evaluating the information that is obtained from the pilot test. The test developers are then required to make any necessary revisions to the new test and therefore are responsible for fixing any problems that exist with the test performance as discovered from conducting the pilot test (McIntire & Miller, 2007).

In this pilot test, 50 respondents have been selected to be in the pilot test. The purpose of the pilot test as mentioned earlier is to test the reliability of the questionnaire. Due to the fact that the purpose of the pilot test is to determine how well the new test performs, it is essential that the pilot test be administered in a similar situation to the one that the test will actually be utilized in. Because of this, the researcher needs to choose a group of people who closely resemble or are even directly part of the target audience that the test will be used for. When conducting a pilot test, the test the researcher needs to make sure that the examinees fully understand that they are participating in a research study and therefore, that the results of the test will be used for research purposes only.

3.7 RELIABILITY ANALYSIS OF THE SAMPLES

The reliability of the questionnaire was tested using Cronbach's Alpha to show the internal consistency of the items been studies in the questionnaire. According to Sekaran (2003), the closer the reliability coefficient to 1.00, the better it would be. While if less than 0.60 is considered poor. Those in the range of over 0.8 are considered good and acceptable. From the reliability analysis made, a table as shown below will be obtained. The table show the values of Cronbach's Alpha of the variables been analysed. In this case, organizational climate, human resource practices and high performance work systems. The example of the table of Cronbach's Alpha is shown as below

 Table 2: The Example of Table of Cronbach's Alpha to Determine the Internal

 Consistency of the Data

Variables	Cronbach's	Cronbach's	N of Items
	Alpha	Alpha Based	
	1	Standardised	
		Items	
Organizational Climate	0.654	0.645	14
Human Resource Practices	0.899	0.890	26
High Performance Work Systems	0.780	0.812	13

3.8 DATA ANALYSIS

Data analysis is a body of methods that help to describe facts, detect patterns, develop explanations, and test hypotheses (Joel, 1996). Through data analysis, the researcher is able to inspect, clean, transform, and modelling the data collected with the goal of highlighting the useful information relates with the issues been investigated, suggesting conclusion and using the outcomes from the data analysis to be used in the decision making. In other words, the results obtained from the process of data analysis will be used by the researcher to find the right answer to answer his or her question, discovered the important pattern in the data through the correlation analysis and regression analysis, and helped the researcher to communicate the results with the biggest possible impact. The data collected was analysed by using Statistical Package for Social Science (SPSS Version 16.0). All items and variables were coded before entered to the computer in order to carry out factor analysis. The reasons or purpose of having a data analysis is to help the researcher to achieve the objective of the study. The data analysis can be classified into two which are descriptive and inferential. Among the analyses that will be used in this study are reliability analysis, factor analysis, correlation analysis, and regression analysis.

3.8.1 DESCRIPTIVE STATISTIC

Descriptive statistics are used to describe the basic features of the data in a study. It provides simple summaries about the sample and about the observations that have been made. The summaries may be either in the form of quantitative like summary statistics, or visual such as simple graphs. It can also be described as a presentation of data in the form of tables and charts or summarization by means of percentiles and standard deviations.

Descriptive statistics do not make any conclusions that extend beyond the data being analysed, instead it just describing what is or what the data shows. Thus, the descriptive statistics are simply to describe what is going on in the data being analysed. By using the descriptive analysis, the researcher is able to present quantitative description in a manageable form. Descriptive statistics help us to simplify large amounts of data in a sensible way. Each descriptive statistic reduces lots of data into a simpler summary.

In this study descriptive statistic such as missing values, normality test, frequency, mean, and standard deviation used to describe the basic features of the data in a study. This will provide simple summaries about the sample and the measures. Together with simple graphics analysis, this will form the basis of virtually every quantitative analysis of data.

3.8.2 INFERENTIAL STATISTIC

Inferential statistics are techniques that allow the researchers to apply the information obtained from the samples to make generalizations about the populations. For example, a researcher is interested in the exam marks of all students in Malaysia. It is not feasible to measure all exam marks of all students in Malaysia so he or she may measure a smaller sample of students, for example, 2000 students, that are used to represent the larger population of all students in Malaysia. Thus, it can be said that, statistical inference is the process of drawing conclusions from data that is subject to random variation, for example, observational errors or sampling variation. It draws conclusions and, in some cases, making predictions about the properties of a population based on information obtained from a sample.

It is more commonly used to answer cause-and-effect questions or make predictions based from the available data. However, inferential statisticsdo not prove causality. Thus, a proof of anus is always depends on the given theories, may be a statistical data obtained from the previous research by other researchers, and it is vital that such theories be clearly stated prior to using inferential statistics. For example, suppose that a researcher want to say that on average, male workers arepaid significantly more than female workers for full-time work. There might be some competingexplanations that exist for this discrepancy. In this case, inferential statistics can provide evidence to prove one theory is more accurate than the other, however anyultimate conclusions about actual causality must come from a theory supportedby both the data and sound logic.

In this study, the researcher will only discuss the method of Pearson correlation coefficient and linear regression that commonly been used in the inferential analysis to analyse the data.

3.8.2.1 Pearson Correlation Coefficient

Correlation is a measure of the relationship between two (2) or more variables normally between the independents and dependent variables. The symbol of a correlation is r, and its range is from -1.00 to +1.00. The value of -1.00 represents a perfect negative correlation while a value of +1.00 represents a perfect positive correlation. A value of 0.0 represent a lack of correlation. The closer the measure to 1.00, the more likely the relationship is statistically significant (Muchinsky, 1993). According to "Guilford Rule of Thumb" (Guilford, 1956) the strength of correlation shown in Table 3.

Value of Coefficient	Relation between variables	
0.0 - 0.30	Very Low Relationship	
0.30 - 0.50	Low Relationship	
0.50 - 0.70	High Relationship	
0.70-1.00	Very High Relationship	

 Table 3: Interpretation of Strength of Correlation Coefficient

3.8.2.2 Linear Regression

Linear regression attempts to model the relationship between two variables by fitting a linear equation to observed data. One variable is considered to be an explanatory variable, and the other is considered to be a dependent variable. In this study, linear regression has been used to analyse the relationship between two variables. For each subject (or experimental unit), the purpose is to find the best straight line through the data. In some situation, the slope and/or intercept have a scientific meaning.

Should a researcher wants to perform a linear regression analysis, it is advisable to conduct a preliminary test for example a scatterplot, to determine whether there is a relationship in existence between the two variables of interest. Should there is no relationship, then fitting a linear regression model to the data probably will not provide a useful model.

3.9 CONCLUSION

This chapter explained the research design, location of the study, instruments used in data collection, and criteria for the selection of respondents. A clear understanding of the research methodology is important so that the reader or user of this study will able to comprehend why data has been analysed in certain ways and the direction of the study. The following chapter will discuss on the findings of the study.

CHAPTER 4

FINDINGS

4.0 INTRODUCTION

This chapter presents, analyses, and discusses the research findings from the survey questionnaire. The results are divided into three sections. The first section deals with the analysis and discussion of data from the survey questionnaire. The second section deals with the biographic and background information of the respondents by looking at genders, race, age, level of education, and year of working. While the third section present a summary of the results. This chapter will explains the level of relationship between the organizational climate and human resource practices toward the high performance work systems.

4.1 PILOT TEST

A pilot test is a technique applied to test the design and/or methods and/or instruments prior carrying out the actual research. It usually involves simulating the actual data collection process on a small scale to get feedback on whether or not the instruments are likely to work as expected in a "real world" situation. A typical pilot test involves administering instruments to a small group of individuals that has similar characteristics to the target population, and in a manner that stimulates how data will be collected when the instruments are administered to the target population.

In the pilot test, the researcher has distributed fifty questionnaires to the employees of ANGKASA, and they were given about a week to answer. Luckily, all of them returned the questionnaire as requested within the time promised. Then the reliability analysis was performed to the data collected by using the SPSS (Statistical Package for the Social Sciences) software. Reliability refers to the extent to which a scale produces consistent results should the measurements are repeated a number of times. By looking at the Cronbach's Alpha in the reliability analysis, if the association of data is high, it is considered that the scale yields consistent results and is therefore reliable. According to Sekaran (2003), the value of Cronbach's Alpha of 0.70 and above is considered reliable.

The results of the reliability analysis in the pilot test are shown as below.

 Table 4 : Reliability Analysis for Organizational Climate, Human Resource Practices

 and High Performance Work Systems (Pilot Test)

Variables	Cronbach's	Cronbach's Alpha	Number
	Alpha (α)	Based on	of Items
		Standardized Items	
Organizational Climate	0.644	0.701	17
Human Resource Practices	0.910	0.910	26
High Performance Work Systems	0.796	0.829	13

Based on the test conducted, the Cronbach's Alpha for Organizational Climate, Human Resource Practices and High Performance Work Systems in the pilot test is 0.64, 0.9 and 0.8 respectively. Referring to the Cronbach's Alpha of the variables, although the value for organizational climate is below that 0.70, but it still can be acceptable. Hence, the distribution of questionnaire for data collection can be proceeded. The analysis of the data collected from the distribution of the questionnaire will be explained below. In the next section, the researcher will conduct several tests or analysis to the data collected from the sampling process to ensure they are reliable, relevant, and valid in order to construct a conclusion on the research questions. Among the procedures that will be conducted are reliability analysis, factor analysis, anti-image analysis, factor loading when necessary, mean and standard deviation of the variables, correlation analysis and regression analysis.

4.2 THE RELIABILITY ANALYSIS

In this section, the researcher will conduct a reliability analysis to the 261 samples collected from the respondents. In this study, the main focus is the figure shown by the Cronbach's Alpha. Cronbach's alpha determines the internal consistency or average correlation of items in a survey instrument to gauge its reliability (Cronbach, 1951). In reliability analysis, internal consistency is used to measure the reliability of a summated scale where several items are summed to form a total score. The higher the score, the more reliable the generated scale is. Nunnaly (1978) has indicated 0.7 to be an acceptable reliability coefficient but lower thresholds are sometimes used in the literature.

4.2.1 The Reliability Analysis for Organizational Climate

First of all, the reliability test on the items of organizational climate will be made. The number of items is 17. Should it was found that the Cronbach's Alpha is too low, then a few items might need to be deleted in order to push up the figure. In the first attempt, the Cronbach's Alpha obtained is 0.358. It is just too way back from the acceptable level.

Table 5 : The Cronbach's Alpha for Organizational Climate

Reliability Statistics

Cronbach's	Cronbach's	N of Items
Alpha	Alpha Based on	
	Standardized	
	Items	
.358	.439	17

In order to increase the Cronbach's Alpha, the researcher had deleted item OC14 which resulted an increase to 0.46. Still not satisfy, another item was deleted, which is C20, where the Cronbach's Alpha was increased to 0.57. As the researcher still wants to get a better result, another item was deleted which is C18, resulted a Cronbach's Alpha of 0.65, which is fairly acceptable.

Table6: The Cronbach's Alpha for Organizational Climate after item C14, C18, andC20 were deleted

Reliability Statistics				
Cronbach's Cronbach's N of Items				
Alpha	Alpha Based on			
	Standardized			
	Items			
.654	.645	14		

Thus, after the deletion of items C14, C18 and C2, the number of items left for organizational climate is 14. They will be ignored in the future data analysis.

4.2.2 The Reliability Analysis for Human Resource Practices

Here the reliability analysis to determine the internal consistency of the items of human resource practices will be performed. The number of items to be tested is 26.

Table 7: The Reliability Analysis for Human Resource Practices

Reliability Statistics

Cronbach's	Cronbach's	N of Items
Alpha	Alpha Based on	
	Standardized	
	Items	
.899	.890	26

The Cronbach's Alpha for Human Resource Practices is high, which is above 0.7, thus it is strongly acceptable. As the Cronbach's Alpha obtained is considered high, then no deletion of item is necessary.

4.2.3 The Reliability Analysis for High Performance Work Systems

Here the reliability analysis to determine the internal consistency of the items of high performance work systems will be performed. The number of items to be tested is 13.

Table 8: T	'he Reliabilitv	Analysis for	High Performance	Work Systems
			0 • • • • • •	

Reliability Statistics				
Cronbach's	N of Items			
Alpha	Alpha Based on			
	Standardized			
	Items			
.780	.812	13		

From the tables shown above, the Cronbach's Alpha for the organizational climate is 0.65, which is below the acceptable level. While, the Cronbach's Alpha for the human resource practices and high performance work systems is fairly strong and acceptable, which is 0.9 and 0.78 respectively.

The summary of the results from the above reliability analysis can be shown as follows.

Table 9 : Reliability Analysis for Organizational Climate, Human Resource Practices and High Performance Work Systems

Variables	Cronbach's Alpha (α)	Cronbach's Alpha Based on Standardized Items	Number of Items
Organizational Climate	0.654	0.645	14
Human Resource Practices	0.899	0.890	26
High Performance Work Systems	0.780	0.812	13

However, the reliability analysis alone is not enough to determine the absolute reliability and validity of the items of the variables. Another analysis, known as Factor Analysis is also important to be carried out in order to determine the reliability and validity of the items being tested. One of the objectives of the Factor Analysis is to increase the internal consistency of the items by reducing the number of items or detecting structure in the relationship between items and classifying them. The procedure of Factor Analysis will be discussed next.

4.3 FACTOR ANALYSIS

The purpose of factor analysis is to describe the variation among many variables in terms of a few underlying but unobservable random variables called factors. Factor analysis can be viewed as a statistical procedure for grouping variables into subsets such that the variables with each set are mutually highly correlated, whereas at the same time variables in different subsets are relatively uncorrelated.

In the Factor Analysis, the researcher will firstly determine the KMO (Keiser-Meyers-Oklin) of the variable. After that, moving to table of Anti-Image matrices, the values of antiimage correlation with an 'a-square' is analysed. Any item with an 'a-square' value which is below than 0.5 will be omitted. After that, the researcher will look at the cumulative variance to see how far a set of items of the variables is spread out. Normally, the higher the cumulative variance is, the better the correlation between items in the variable.

4.3.1 Factor Analysis for Organizational Climate

The table below shows two tests that indicate the suitability of your data for structure detection. For the Kaiser-Meyer-Olkin measure of sampling adequacy, high value that close to 1.0 generally indicate that a factor analysis may be useful with the data. The KMO obtained for the organizational climate is 0.80, with a sig. of 0.00. As the KMO is considered high, factor loading analysis is not necessary.

Table 10 : KMO and Bartlett's Test for Organizational Climate

KMO and Bartlett's Test				
Kaiser-Meyer-Olkin Measure	.795			
	Approx. Chi-Square	907.681		
Bartlett's Test of Sphericity	df	91		
	Sig.	.000		

Then, looking at the table of Anti-Image Matrices, there is no 'a-square' value which is below than 0.50, an acceptable number as it shows that the distribution of the items is nearly normal.

Through the factor analysis procedure, the items in organizational climate will be grouped accordingly based on their mutual correlation. Referring to the table below, **Factor 1** consists of items OC 7, OC 5, OC 8, OC 6, and OC 15. While **factor 2** consists of OC 22, OC 19, OC 21, and OC 16, and **factor 3** consists of OC 1, OC 2, OC 4 and OC 3.

Table 11: Rotated Component Matric for Organizational Climate
Rotated Component Matrix ^a				
		Component		
	1	2	3	
OC7	.759			
OC5	.697			
OC8	.669			
OC6	.584			
OC15	.555			
OC22		.801		
OC19		.791		
OC21		.748		
OC16		.564		
OC1			.804	
OC2			.727	
OC4			.555	
OC3			.504	
OC17				

Item which is extracted is OC 17.

Table 12: Items of Organizational Climate According to Factors

Factor 1	Factor 2	Factor 3
OC 7	OC 22	OC 1
OC 5	OC 19	OC 2
OC 8	OC 21	OC 3
OC 6	OC 16	OC 4
OC 15		
No. of items $= 5$	No. of items $= 4$	No. of items $= 4$

By referring to the questionnaire, we will be able to determine what are the areas that each factor is relate to. For **factor 1**, OC 5, OC 6, OC 7, OC 15 and OC 8 is measuring the communication style and decision making process in the organization. While for **factor 2**, OC 16, OC 19, OC 21 and OC 22 is looking at the bureaucracy in the organization. In **factor 3**, OC 1, OC 2, OC 3, and OC 4 is measuring the work organization or work methods practiced in the organization.

Then, another reliability test will be conducted based on the factors above in order to see the reliability of each item in the particular factor.

	Cronbach's	Cronbach's Alpha	Number of
	Alpha	Based On	Items
		Standardized	
		Items	
Organizational Climate –	0.730	0.734	5
Communication and Decision			
Making			
Organizational Climate –	0.730	0.729	4
Bureaucracy			
Organizational Climate –work	0.702	0.706	4
methods			

Table 13 : Reliability Analysis For Organizational Climate By Factors

It can be seen that the reliability analysis according to factor produced a better result, with a Cronbach's Alpha for communication and decision making of 0.73, bureaucracy of 0.73, and work methods of 0.70. It shows that the items in those factors are mutually highly correlated, thus strongly reliable. Then, in the next sub-chapter, the effect of factor analysis on the human resource practices will be explained.

4.3.2 Factor Analysis for Human Resource Practices

Through the factor analysis, the KMO for human resource practices is found to be 0.86, with a sig of 0.00.

Table 14: KMO and Bartlett's Test for Human Resource Practices

KMO and Bartlett's Test			
Kaiser-Meyer-Olkin Measure	.856		
	Approx. Chi-Square	3047.094	
Bartlett's Test of Sphericity	Df	325	
	Sig.	.000	

In the table of 'Anti-Image Matrices', it was found out that there are three which have an "a-square" that is below than 0.50. Those items are HRP 45, HRP 48, and HRP 49. As a result, these three items must be extracted from the analysis. Then another calculation of new KMO is done, without those three omitted items. The new KMO is 0.89, with a sig of 0.00. Clearly, with a higher figure of KMO and sig. When referred to the new table of 'Anti-Image Matrices', there was still another item with an 'a-square" that below 0.50, thus need to be omitted, which is HRP 54. After the omission of HRP 54, the new KMO is 0.9, with a sig. of 0.00. Thus there are four items of human resource practices that will be omitted from the analysis, which are HRP 45, HRP 48, HRP 49 and HRP 54. The cumulative variance for human resource practices is 52.2%. This is fairly acceptable, but it would be better if higher percentage is obtained.

Table 15: Value of KMO and Bartlett's Test on Human Resource Practices After Anti **Image Process was Conducted**

Activities	Omitted	KMO	Bartlett's Test of
	Items		Sphericity(sig)
Before anti image process	None	0.86	0.00
After anti image (1 st Attempt)	HRP 45, HRP 48, HRP	0.89	0.00
	49		
After anti image (2 nd Attempt)	HRP 54	0.90	0.00

By referring to the table of Rotated Component Matrix, the researcher is able to determine what the components represent.

Table 16: Rotated (Component I	Matrix For	Human	Resource	Practices
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Rotated Component Matrix"				
		Component		
	1 2 3			
HRP36	.738			
HRP39	.684			
HRP43	.631			

HRP56	.587		
HRP59	.562		
HRP42	.544		
HRP47	.521		
HRP40	.514		
HRP38			
HRP55			
HRP51		.838	
HRP52		.803	
HRP50		.763	
HRP60		.646	
HRP61		.521	
HRP58			
HRP37			
HRP46			.884
HRP44			.739
HRP57			.572
HRP53			.505
HRP41			

Referring table of "Rotated Component Matrix", HRP 38, HRP 55, HRP 58, HRP 37, and HRP 41 are not listed in any component in the above table, thus they will be extracted in future data analysis.

Factor 1	Factor 2	Factor 3
HRP 36	HRP 51	HRP 46
HRP 39	HRP 52	HRP 44
HRP 43	HRP 50	HRP 57
HRP 56	HRP 60	HRP 53
HRP 59	HRP 61	
HRP 42		
HRP 47		
HRP 40		
No. of items $= 8$	No. of items $= 5$	No. of items $= 4$

 Table 17: Items of Human Resource Practices According to Factor

By referring to the questionnaire, we are able to know what area does each factor is measuring. For **Factor 1**, HRP 36, HRP 39, HRP 40, HRP 42, HRP 47, HRP 56, HRP 59 and HRP 43 are measuring Training and Development. For **Factor 2**, HRP 51, HRP 52, HRP 50,

HRP 60, and HRP 61 are measuring the area of compensations. For **Factor 3**, HRP 46, HRP 44, HRP 57 and HRP 53 are measuring the benefits.

A new reliability analysis according to factors above will be calculated to determine the reliability of items in each factor.

Table 18: Reliability Analysis For Human Resource Practices By Factors

	Cronbach's	Cronbach's Alpha	Number of
	Alpha	Based On	Items
		Standardized	
		Items	
Human Resource Practices -	0.842	0.846	8
Training and Development			
Human Resource Practices -	0.841	0.843	5
Compensations			
Human Resource Practices -	0.772	0.779	4
Benefits			

The Cronbach's Alpha derived from the reliability analysis for the training and development, compensations and Benefits after the factor analysis are 0.84, 0.84 and 0.77 respectively. As they are 0.7 and above, they are considered as mutually highly correlated. Next, the factor analysis on high performance work systems is explained.

4.3.3 Factor Analysis for High Performance Work Systems

Firstly the researcher will compute the KMO for the 13 items of the high performance

work system. KMO obtained is shown in the table below.

Table 19: KMO and Bartlett's Test for High Performance Work Systems

Rivo and Dartiett's Test			
Kaiser-Meyer-Olkin Measure	.746		
	Approx. Chi-Square	1087.285	
Bartlett's Test of Sphericity	Df	78	
	Sig.	.000	

KMO and Partlatt's Tast

The KMO obtained is 0.75 with the Bartlett's test of sphericity (sig) is 0.00. From the

KMO obtained, it can be said that the relationship of the items is strong and acceptable.

Then, the table of 'Anti-Image Matrices' was inspected. The area of focus is on the "anti-image correlation" section, in order to determine any item with an 'a-square' of below than 0.50 to be omitted from the analysis. As all of the items are 0.50 and above, there is no anti-image. No omission of item need to be done.

The cumulative variance obtained is 31.89%. Meaning the level of inter-relationship among items is low, which may lead to abnormal pattern of distribution. Hence, the researcher decided to conduct a factor loading analysis to determine which items have caused this situation. In the table of factor loading, the researcher will look for an item with a value of below 0.40 to be extracted. It was found out that, there are two items which are HPWS 26 and HPWS 28, with a factor loading which is below 0.40. Thus, these two items will be omitted from the study, which resulted to the reduction on number of items to be analysed further on in this study. With the omission of those two items, the number of items for high performance work systems is reduced from 13 to 11, and the Cumulative Variance is increased to 35.735.

 Table 20 : The Cumulative Variance of High Performance Work Systems Before Factor

 Loading Procedure

Total Variance Explained

Component		Initial Eigenvalu	Jes	Extractio	on Sums of Square	ed Loadings
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	4.147	31.897	31.897	4.147	31.897	31.897
2	1.849	14.225	46.122			
3	1.192	9.166	55.288			
4	.983	7.560	62.847			
5	.960	7.387	70.234			
6	.775	5.962	76.196			
7	.763	5.867	82.064			

8	.529	4.066	86.129		
9	.470	3.615	89.744		
10	.418	3.218	92.962		
11	.382	2.938	95.900		
12	.308	2.365	98.265		
13	.226	1.735	100.000		

Extraction Method: Principal Component Analysis.

 Table 21:The Cumulative Variance with 11 Items After Factor Loading Procedure

Total Variance Explained								
Component		Initial Eigenvalu	Jes	Extraction Sums of Squared Loadings				
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %		
1	3.931	35.735	35.735	3.931	35.735	35.735		
2	1.664	15.131	50.866					
3	1.152	10.471	61.337					
4	.904	8.217	69.554					
5	.776	7.053	76.607					
6	.577	5.247	81.854					
7	.525	4.776	86.631					
8	.446	4.057	90.687					
9	.411	3.735	94.423					
10	.385	3.497	97.919					
11	.229	2.081	100.000					

Extraction Method: Principal Component Analysis.

So a new KMO is calculated by using the 11 items. The new KMO is 0.75, sig = 0.00, which is similar like before factor loading was conducted, but the cumulative variance has increased to 35.74%.

The next table shows the effect to the KMO and Cumulative Variance, before and after the Factor Loading procedure was performed.

Table 22: Cumulative Variance for High Performance Work Systems, before and afterFactor Loading Procedure

KWO	Sig	Variance
0.75	0.00	31.89%
0.75	0.00	35.74%
	0.75 0.75	NNO Sig 0.75 0.00 0.75 0.00

*after factor loading- HPWS 26 and HPWS 28 were extracted

It can be seen from the table above, after the factor loading been done, the cumulative variance has increase from 31.89% to 35.74%, which is better and show a stronger relationship among items. A new Cronbach's Alpha is obtained through the reliability analysis by using the new number of items.

Table 23: The Reliability Analysis For High Performance Work Systems After Factor Analysis

Reliability Statistics						
Cronbach's	Cronbach's	N of Items				
Alpha	Alpha Based on					
	Standardized					
	Items					
.810	.816	11				

The table below show the differences of Cronbach's Alpha of each variable before and after Factor Analysis.

Table 24: The Reliability Analysis for Organizational Climate, Human ResourcePractices and High Performance Work Systems

Before Fa	ctor Analysis		After Factor Analysis			
Variables	Cronbach's	No. of	Variables	Cronbach's	No. of	

	Alpha	Items		Alpha	Items
Organizational	0.65	17	OC – Communication &	0.73	5
Climates (OC)			Decision Making		
			OC-Bureaucracy	0.73	4
			OC- Work Methods	0.70	4
Human Resource	0.89	26	HRP – Training &	0.84	8
Practices(HRP)			Development		
			HRP – Compensations	0.84	5
			HRP - Benefits	0.77	4
High Performance	0.78	13	High Performance Work	0.81	11
Work Systems			Systems		

4.4 **DELETED ITEMS**

Several items from the variables have been deleted in the process to obtain a better Cronbach's Alpha in the reliability analysis.

Table 25: Items Deleted of the Variables after the Reliability Analysis and Factor Analysis

Variables	Deleted Items	No. of Items
		Deleted
Organizational Climates	OC 14, OC 20, OC 18, OC	4
	17	
Human Resource Practices	HRP 38, HRP 55, HRP 58,	5
	HRP 37, HRP 41	
High Performance Work	HPWS 26, HPWS 28	2
Systems		

4.5 DATA SCREENING

Data screening is the process of ensuring the collected data is clean and ready for analyses before the researcher can conduct further statistical analyses. It is important that those data is screened in order to ensure the data is useful, reliable, and valid for testing causal theory.

4.5.1 Missing Value Analysis

The missing value analysis has been made to check the missing values during the data transferred. Based on the result obtained by using the SPSS, the percentage of missing values for all the items in questionnaire is 0.00% which means that there is no missing values during the data transfer. The SPSS output is attached in Appendix B at the end of this project paper.

4.5.2 NORMALITY TEST

Normality test is used to determine whether a data set is well model by a normal distribution or not, or in other way of saying it, to compute how likely an underlying random variable is to be normally distributed. In the process of any statistical tests, a normality test is considered prerequisite as maintaining a normal distribution of data is an underlying assumption in parametric testing. It can be performed in two ways, either graphically and numerically. None is better than the other, each of them has its own advantages and disadvantages. It is not the intention of the researcher to discuss in details about those advantages and disadvantages of the options, as the main focus is to see and explain the normality of the data been used in this study.

Researcher used the Normal Q-Q plot to see the normality of the data. Coakes and Steed (2003) suggested, on normal probability plot, data that follows a normal distribution will appear linear, a straight line. The normality test for each variable will be made and discussed in the section.

Chart 1: The Normality of Items in Communication and Decision Making for Organizational Climate



Chart 2: The Normality of Items in Bureaucracy for Organizational Climate



Chart 3: The Normality of Items in Work Methods for Organizational Climate



Chart 4: The Normality of Items in Training and Development for Human Resource Practices



Chart 5: The Normality of Items in Compensations for Human Resource Practices



Chart 6: The Normality of Items in Benefits for Human Resource Practices



Chart 7: The Normality Of Items For High Performance Work Systems



Looking at the Q-Q Plot for each factor, the normality of some of the items in the variable look pretty deviate from the line, but that does not mean they are not normal. This situation might occur due the way the respondent selected the answer in the questionnaire. As the same question in the questionnaire might be interpreted differently by different respondent, this has caused the tabulation of data not in a stable strata. Referring to the table 26 shown below, the researcher is in the opinion that the relationship between items in the variables is pretty strong and acceptable, thus valid to be used as a basis in making conclusion in this study regarding the issue been discussed.

To further understand the normality test conducted on the variables, the table of Test of Normality below can be referred to. If the charts above show the normality test according to the factors, in the table below, the test was done to the overall items in the variables, so that comparison can be made from the perspective of graphical and numerical.

Table 26: Test of Normality on Organizational Climate, Human Resource Practices andHigh Performance Work Systems

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
OC (com & DM)	.192	261	.000	.876	261	.000
OC (Bureaucracy)	.289	261	.000	.844	261	.000
OC (Work Methods)	.222	261	.000	.888.	261	.000
HRP (T&D)	.105	261	.000	.933	261	.000
HRP (Comps)	.238	261	.000	.726	261	.000
HRP (Benefits)	.253	261	.000	.854	261	.000
HPWS	.214	261	.000	.709	261	.000

Tests of Normality

a. Lilliefors Significance Correction

The above table presents the results from two well-known tests of normality, namely the Kolmogorov-Smirnov Test and the Shapiro-Wilk Test. The Shapiro-Wilk Test is more appropriate for small sample sizes (< 50 samples) but can also handle sample sizes as large as 2000. For this reason, the researcher will use the Shapiro-Wilk test as our numerical means of assessing normality. If the Sig. value of the Shapiro-Wilk Test is greater the 0.05 then the data is normal. If it is below 0.05 then the data significantly deviate from a normal distribution.

4.6 SURVEY RESPONSES

From the 450 questionnaires distributed to the respondents, only 261 questionnaires were collected. The responses rate is 58%. Referring to Hair et al (1984), when the response rates above 50% are generally considered acceptable, but if the response rates is 80% and above are far more desirable. In this study 58% is acceptable and can be used in this research.

4.7 DESCRIPTIVE ANALYSIS

The data for this study was gathered from 450 employees of Angkasa from various units or departments in Kelana Jaya Selangor. The following sections disclosed the descriptive summary on the demographic information of the respondents. The dependent and independent variables are obtained using SPSS Version 16.0.

4.7.1 DEMOGRAPHIC ANALYSIS

4.7.1.1 Age

The age of respondents who answered the questionnaires given in table 27 shown that the respondents who were 30 - 34 years old is the major group in this research which are 44% of the total respondents, followed by those who are 35 - 39 years old, 32%, 40 - 44 years old, 11%, 25 - 29, 11%, 45 - 49 years old, 2 % and 20 - 24 years old, 0.4%.

	Frequency	Percent	Valid Percent	Cumulative Percent
20-24	1	.4	.4	.4
25-29	28	10.7	10.7	11.1
30-34	115	44.1	44.1	55.2
35-39	84	32.2	32.2	87.4
40-44	29	11.1	11.1	98.5
45-49	4	1.5	1.5	100.0
Total	261	100.0	100.0	

Table 27 : Frequency For Age of Respondents

4.7.1.2 Gender

Out of 261respondents, about 174 peoples or 67% of the employees of ANGKASA are male, the rest are female which represent 87 peoples or 33%. Table 28 below shows the distribution of gender group in this study.

Table 28: Frequency Gender of the Respondent

	Frequency	Percent	Valid Percent	Cumulative Percent
female	87	33.3	33.3	33.3
male	174	66.7	66.7	100.0
Total	261	100.0	100.0	

4.7.1.3 Race

Regarding on the race of the respondents who answered the questionnaire in table 29, it shows that all of the respondent are Malays.

Table 29: Frequency For Race of Respondents

		D64		
	Frequency	Percent	Valid Percent	Cumulative
				Percent
melayu	261	100.0	100.0	100.0

4.7.1.4 Level of Education

In terms of the level of education in table 30, the highest educational level of respondents are come from Master degree level which are 0.8% of the total respondents,

followed by Bachelor degree holder 39%, Diploma of 40%, Sijil Tinggi Pelajaran Malaysia (STPM) of 6% and Sijil Pelajaran Malaysia (SPM) of 15%.

D65									
	Frequency	Percent	Valid Percent	Cumulative					
				Percent					
degree	101	38.7	38.7	38.7					
diploma	104	39.8	39.8	78.5					
master	2	.8	.8	79.3					
SPM	39	14.9	14.9	94.3					
STPM	15	5.7	5.7	100.0					
Total	261	100.0	100.0						

Table 30: Level of Education of the Respondents

4.7.1.5 Years of Working

By referring to table 31, most of the respondents who answered the questionnaires have been working for six years with ANGKASA, which is 18%. The longest year of working is 18 year with 2,7% and the shortest period of working is two years with 1.1%.

Table 31: Frequency For Years of Working Of The Respondents

D66									
	Frequency	Percent	Valid Percent	Cumulative					
				Percent					
10	21	8.0	8.0	8.0					
11	7	2.7	2.7	10.7					
12	10	3.8	3.8	14.6					
13	10	3.8	3.8	18.4					
14	1	.4	.4	18.8					
15	5	1.9	1.9	20.7					
16	2	.8	.8	21.5					
17	2	.8	.8	22.2					

				-
18	7	2.7	2.7	24.9
2	3	1.1	1.1	26.1
2.5	4	1.5	1.5	27.6
3	17	6.5	6.5	34.1
4	15	5.7	5.7	39.8
5	28	10.7	10.7	50.6
6	47	18.0	18.0	68.6
7	29	11.1	11.1	79.7
8	32	12.3	12.3	92.0
9	21	8.0	8.0	100.0
Total	261	100.0	100.0	

4.7.1.6 Job Position

Most of the respondents hold the position as an Officer, with a number of 108 people that contributed 41% to the total number of respondents. This is followed by the Assistant Officer of 99 people (38%), Clerk of people (17%), Administration Officer of 5 people (2%) and Chief Clerk of 4 people (2%).

Table 32 : Frequency For Job Position Of The Respondents

D67								
	Frequency	Percent	Valid Percent	Cumulative				
				Percent				
admin officer	5	1.9	1.9	1.9				
asst.officer	99	37.9	37.9	39.8				
chief clerk	4	1.5	1.5	41.4				
clerk	45	17.2	17.2	58.6				
officer	108	41.4	41.4	100.0				
Total	261	100.0	100.0					

4.7.2 MEAN AND STANDARD DEVIATION

The mean is used for this analysis to measure of central tendency calculated by dividing the sum of all values by the number of value in the data set. The Standard Deviation

is a measure of the spread that is given by the positive square root of the variance. The researcher will able to identify the perception of employees toward the variables by using this kind of analysis.

Table 33: Mean and Standard Deviation For Organizational Climate, Human ResourcePractices and High Performance Work Systems

Descriptive Statistics								
	N	Minimum	Maximum	Mean	Std. Deviation			
OC (Com & DM)	261	3.80	6.00	5.3686	.39508			
OC (Bureaucracy)	261	4.00	7.00	5.9962	.36226			
OC (Work Methods)	261	3.50	6.00	5.1034	.38459			
HRP(Training&Development)	261	3.75	5.88	5.1212	.44961			
HRP(Compensations)	261	2.60	5.00	4.3548	.44092			
HRP(Benefits)	261	2.75	5.75	4.8621	.44790			
HPWS	261	3.55	5.73	5.3438	.30883			
Valid N (listwise)	261	l P	1 1	1 '				

A large standard deviation indicates that the data points are far from the mean and a small standard deviation indicates that they are clustered closely around the mean. It can be seen from the above table that the standard deviation for each variable is below than 0.50, means that the distribution of items are fairly close with a normal distribution.

4.7.3 REGERESSION AND CORRELATION ANALYSIS

In this part, the researcher is analyse the employees' perception on the variables been study. This can be done by looking at the mean of the answers selected by them. From the tables shown below, a researcher is looking at the how the employees rate the existence of the variables in the organization and in what way all of these variables may affect them by looking at the mean of their answer. At the same time, a researcher also wants to determine the level of correlation between the independent variables and dependent variable.

4.7.3.1 Perception on Organizational Climate

Summary Item Statistics							
	Mean	Minimum	Maximum	Range	Maximum /	Variance	N of
					Minimum		Items
Item Means	5.480	4.747	6.027	1.280	1.270	.215	13
Item Variances	.284	.182	.490	.308	2.698	.007	13
Inter-Item Covariances	.035	078	.181	.259	-2.302	.005	13
Inter-Item Correlations	.118	258	.558	.816	-2.165	.056	13

Table 34 : Employees' Perception Towards Organizational Climate

The overall means for organizational climate is 5.480. From the mean given, the employees of ANGKASA see organizational climate as an important element to make them keep on motivated and committed in performing their works. Out of 7, the overall mean of the employees' selection is 5.4. This means that the employees see that a conducive working environment and supportive management are part of important elements in ensuring a high performance work outcomes. An issue such as 'employee-friendly' as well as 'familyfriendly' must be taken into consideration in formulating organizational policies or working plans. The involvement of employees in the decision making process must be encouraged as a crucial factor in contributing towards competitiveness, innovativeness, creativeness and happiness in the organization.

4.7.3.2 Perception on Human Resource Practices

Table 35: Employees' Perception Towards Human Resource Practices

Summary nem Statistics								
	Mean	Minimum	Maximum	Range	Maximum / Minimum	Variance	N of Items	
Item Means	4.835	3.697	5.636	1.939	1.524	.403	17	
Item Variances	.373	.250	.720	.470	2.876	.011	17	
Inter-Item Covariances	.131	.025	.246	.221	9.775	.002	17	
Inter-Item Correlations	.354	.087	.681	.594	7.823	.013	17	

nony Itom Statistics

The overall means for organizational climate is 4.835. The employees perception on the human resource practices are moderate, where the human resource unit have to play a more active roles so that the employees will see it important for the growth of the organization It also shows that the employees expect more from the human resource unit as a strategic partner to the organizational development and growth.

4.7.3.3 Perception on High Performance Work Systems

The overall means for high performance work systems is 5.34. This shows that most employees see high performance work systems as an important element that need to be practiced in their organization. The employees see that high performance work systems are able to help ANGKASA to gain a competitive advantage over it competitors in an effort to create a more business opportunities and increase profits with the objective to serve its members better. This need is seen more critical due to the volatile business world and globalisation.

Table 36: Employees' Perception Towards High Performance Work Systems

Summary Item Statistics								
	Mean	Minimum	Maximum	Range	Maximum /	Variance	N of	
					Minimum		Items	
Item Means	5.344	4.728	5.966	1.238	1.262	.192	11	
Item Variances	.276	.172	.460	.289	2.683	.008	11	
Inter-Item Covariances	.077	002	.178	.180	-103.436	.002	11	
Inter-Item Correlations	.287	008	.614	.622	-75.998	.019	11	

4.8 CORRELATION ANALYSIS

Pearson Correlation is a single number that describes the degree of relationship between two variables. In this study, it studies organizational climate and human resource practices with high performance work systems. Referring to Guilford's Rule of Thumb (Guilford, 1956), the rule of thumb for interpreting the relationship in a correlation is, when r <0.20 (very weak correlation); 0.20 < r < 0.40 (weak correlation); 0.40 < r < 0.70 (moderate correlation); 0.70 < r < 0.90 (strong correlation); r > 0.90 (very strong correlation).

4.8.1 Relationship between Human Resource Practices and Organizational Climate with High Performance Work System

The Pearson correlation method was applied in order to test the above objective. In table 37, the correlation coefficient for the Organizational Climate (Communication and Decision Making) is 0.52, p<0.00, Organizational Climate (Bureaucracy) is -0.22, p<0.00 and Organizational Climate (Work Methods) is 0.56, p<0.00 for the organizational climate. While for the human resource practices, the pearson correlation for Training and Development is 0.66, p<0.00, Compensations, p<0.00 and benefits 0.59, p<0.00. Therefore, there was a fairly high relationship between human resource practices and high performance work systems, while organizational climate have moderate relationship to high performance work systems as according to "Guilford Rule of Thumb". Supported by the result in Table 38, the human resource practices have a stronger relationship compared to organizational climate because the r value for human resource practices is higher than organizational climate.

 Table 37: The results of Pearson Correlation Analysis for the Relationship between

 Organizational Climate and High Performance Work Systems

Variables	Pearson Correlation (r)	Level of
		Significance (p)
Organizational Climate	0.52**	0.00
(Communication and		
Decision Making)		
Organizational Climate	-0.22**	0.00
(Bureaucracy)		

Organizational Climate	0.56**	0.00
(Work Methods)		

** Correlation is significant at the 0.01 level (2-tailed), p < 0.01

****** correlation is significant at the 0.01 level (2-tailed)

Table 38: The results of Pearson Correlation Analysis for the Relationship betweenHuman Resource Practices and High Performance Work Systems

Variables	Pearson Correlation (r)	Level of
** Correlation is significant at the	he 0.01 level (2-tailed), p < 0.0)Bignificance (p)
Human Resource Practices (Training and Development)	0.66**	0.00
Human Resource Practices (Compensations)	0.56**	0.00
Human Resource Practices (benefits)	0.59**	0.00

** correlation is significant at the 0.01 level (2-tailed)

4.9 **REGRESSION ANALYSIS**

If in the correlation analysis, the researcher is showing the level of relationship of both independent variables toward high performance work system, under the regression analysis the researcher will still analyse the relationship, but analysing which independent variables have a stronger or weaker relationship.

4.9.1 Relationship between Human Resource Practices and High Performance Work Systems

In this analysis, the researcher wants to determine which of the independent variables

have a stronger influence on the high performance work systems. This can be ascertain by looking at the Multiple Regression (R) of the variables. From the table below, the Multiple Regression (R) for the human resource practices is 0.723 and organizational climate is 0.501.

Table 39 : Relationship Between Human Resource Practices and Organizational

Climate Towards High Performance Work Systems

Variables	R	R Square	Adjusted R	Std. Error
			Square	of the
				Estimate
Human Resource Practices	.723 ^a	.522	.520	.21392
Organizational Climate	.501 ^a	.251	.248	.26773

a.Predictors: (constant), Human Resource Practice (F = 86.97, Sig = 0.00)

a.Predictors: (constant), Organizational Climate (F = 282.909, Sig = 0.00)

Thus, it can be interpreted that human resource practices have a greater influence on the high performance work system than the organizational climate. The next two tables below show the regression analysis for the independent variables according to factors.

Table 40: Relationship between Organizational Climate (By Factors) And High Performance Work Systems

Variables	R	R Square	Adjusted R	Std. Error	Durbin-
			Square	of the	Watson
				Estimate	
Organizational Climate-					
Communication and Decision	.523 ^a	.274	.271	.26368	2.133
Making					
Organizational Climate-					
Bureaucracy	.219 ^a	.048	.044	.30194	1.997
Organizational Climate-					
Work Methods	.558 ^a	.311	.308	.25687	1.782

From the table above, looking at the R, the highest is organizational climate-work methods with 0.56, followed by organizational climate-communication and decision making with 0.52 and organizational climate-bureaucracy with 0.22. Thus, it can be said that the work methods of organizational climate has the biggest influence on the high performance work systems and the least is organizational climate –bureaucracy.

 Table 41: Relationship between Human Resource Practices (By Factors) And High

 Performance Work Systems

Variables	R	R Square	Adjusted	Std. Error	Durbin-
			R Square	of the	Watson
				Estimate	
Human Resource Practices –	.663 ^a	.440	127	22165	2.065
Training & Development			.437	.23103	
Human Resource Practices –	.583 ^a	.340	.338	.25130	1.826
Compensations					
Human Resource Practices –	.588 ^a	.346	.343	.25027	1.965
Benefits					

From the table above, looking at the R, the highest is human resource practices-Training and Development with 0.66, followed by human resource practices-Compensations with 0.59 and human resource practices-Benefits with 0.58.

If a comparison is made between those two tables above, it can be seen that all of the factors of human resource practices have higher R than organizational climate. The interpretation that can be made based on the analysis made, both of the independent variables are important in the implementation of high performance work systems in ANGKASA but the practices applied in the human resource have bigger effects on the high performance work systems. This might be due on the reason that the impact from the implementation of any particular human resource practices is direct to the employees compare to the organization climate, which is more intangible in nature. For example, if the organization increased the salary, then the increment can be felt by looking at the salary statement. On the other hand, it

is difficult to gauge the level of organizational climate, as it is merely based on the perception which may vary between employees.

4.10 SUMMARY OF HYPOTHESES TESTING

Based on the analysis, it can be concluded that there is a relationship between human resources practices and the high performance work systems towards ANGKASA. The analysis also proved that there is a relationship between organizational climate and high performance work systems towards ANGKASA. The results of hypothesis testing are as summarized in Table 42.

Table 42: Summary of Hypothesis Testing

	Hypothesis	Result
H1	There is a relationship between Human Resource	Supported
	Practices and High Performance Work Systems	
	Towards Angkasa	
H2	There is a relationship between organizational	Supported
	Climate and High Performance Work Systems	
	Toward Angkasa	

Based on the analysis made, it can be said that both of the independent variables have an influence or there is a relationship between human resource practices and organizational climate towards the high performance work systems. The only difference is the intensity of the relationship, where the human resource practices show a higher level of correlation compared to organizational climate. However, it does not mean that the human resource practices is more important than organization climate in the implementation of the high performance work system, but rather it is just referring to the level of influence that each independent variable has on the high performance work systems.

4.11 CONCLUSION

From the data analysis, it can be seen that there is a relationship between the human resource practices and organizational climate towards the high performance work systems. The level of the relationship that the human resource practices have towards the high performance work systems is higher than the organizational climate.

CHAPTER 5

DISCUSSION, RECOMMENDATIONS AND CONCLUSIONS

5.0 INTRODUCTION

In this final chapter, it presents the discussion, recommendations and conclusions of the study. This chapter is divided into four sections. The first section is an overview of the findings where the researcher will do some flashback of some important issues that have been discussed in the previous chapters but need to be highlighted here for the purpose of further discussion. In the second section, discussion of the findings will be made. While in the third section, some recommendations for future research are proposed, and the research implications were discussed in the last part of this chapter.

5.1 **DISCUSSIONS**

This study was conducted with the primary objective to measure the relationship or level of influence that the organizational climate and human resource practices have on the high performance work systems.

This study is aimed at answering several questions such as;

- 2 Does the organizational climate has an relationship on the implementation of High Performance Work Systems in ANGKASA?.
- 3 Does the human resource practices has an relationship on the implementation of High Performance Work Systems in ANGKASA?.
- 4 Which of the independent variables have a greater relationshipon the successfulness of the high performance work systems in ANGKASA?.

The hypothesis states that "there is a relationship between organizational climate and high performance work systems" and "there is a relationship between the human resource practices and high performance work systems". The analysis shows that there is a relationship between organizational climate and human resource practices with the high performance work systems towards ANGKASA. From the correlation analysis, the level of relationship (*r*) can be calculated. From the calculation made, the r for organizational climate (Communication and Decision Making) is 0.52, p<0.01, organizational climate (Bureaucracy) is -0.22, p< 0.01 and organizational climate (Work Methods) is 0.56, p < 0.01. While the level of r for human resource practices are, human resource practices (Training and Development) is 0.66, p< 0.01, human resource practices (Compensations) is 0.56, p<0.01, and human resource practices (Benefits) is 0.59, p < 0.01. From the level of r obtained, it can be said that, there is a high relationship between human resource practices and high performance work systems, while organizational clime have moderate level of relationship to

high performance work systems. This can be seen by looking at the higher level of agreement for human resource practices towards high performance work systems compared to the organizational climate. The relationship between human resource practices and organizational climate on the high performance work systems can also be ascertained through the regression result, where R or Multiple Correlation obtained for human resource practices is 0.723^a, Sig. equal to 0.000a, and organizational climate with a R of 0.501^a, Sig. equal to 0.000a which support the results obtained for r in the correlation analysis.

The human resource practices and organizational climate show a relationship with the high performance work systems although at a different intensity. It means that they contribute a certain degree of contribution in the successfulness of the implementation of the high performance work systems in ANGKASA.

For the high performance work systems to be successfully implemented, it must have several key areas to focus, among them are (1) employment security (2) selective hiring of new personnel (3) self-managed teams (4) decentralization of decision making (5) comparatively high compensation contingent on organizational performance (6) extensive training (7) reduced status distinctions and barriers and (8) extensive sharing of financial and performance information throughout the organization (Pfeffer, 1998). This is supported by Evans andDavis (2005) where they have highlighted seven key areas of high performance work systems such as (1) selective staffing, (2) self-managed teams, (3) decentralized decision making, (4) extensive training, (5) flexible job assignments, (6) open communication, and (7) performance-contingent compensation. It can be seen that most of theresearchers or group of experts have given the same or nearly similar list of areas on high performance work systems.

This study was conducted with a view to give some resourceful insights to the cooperatives in Malaysia to have a better understanding of the concept of high performance

work systems. The researcher also sees this study as another endeavour to better improve the standard of cooperative movement in Malaysia, and at the same time to broaden the scope of research done regarding to the cooperatives previously.

With a slow development happening in this sector, especially to the small and medium size of cooperatives, the researcher worried that they will not be able to cope with the rapid changes in the business landscape or changes to the demands from the evolving market, or consumers who are now more knowledgeable and selective in their purchasing pattern to goods that have the qualities of innovative, good quality products but low in price, and attractive. Porter (1980, 1985), argues that two successful "generic" business strategies to achieve sustainable competitive advantage over other firms in the industry are the cost leadership strategy and the differentiation strategy. Thus, the cooperatives have to be more sensitive and responsive to the needs of the markets and be different from the others in innovating their products or services. In addition, according to Bac (1997), specifically pointed out 'enhanced response speed as a significant aspect of evolving Korean business strategies', that make their business expand within a short period of time. In view of this, a paradigm shift in the way how cooperatives should be managed is critically needed, so that the cooperatives able to contribute more to the national economic development, a good business player in the market as well as an effective body in improving the social well-being of the members.

Through this study, the level of relationship between human resource practices and organizational climate toward high performance work systems can be identified. By understanding the results obtained, it will benefit the cooperatives in a way that it can be used as the guidance for the cooperatives to identify factors in the formulation of management policies that capable of stimulating a high performance work processes or a healthy working environment.More importantly, the human resource practices thatbeen practiced in the organization must be able to improve the level of organizational citizenship behaviour among the employees, which indirectly will create a better organizational climate. This is supported by the Schneider, Gunnarson and Niles-Jolly (1994) claim that organizational citizenship behaviour is essential in creating a climate that allows for organizational success.

This study put a great emphasize on the important roles or the crucial effects play by human resource practices and organizational climate on the organizational performance. According to Daud and Mohamad (2010), HRM practices have been considered as one of the significant factors appear toboost the performance of organization. There is some empirical support for the hypothesis that firms, which align the HRM practices with their business strategy, will achieve superior outcomes (Bac & Lawler, 1999).Other empirical studies have claimed that climate has a considerable impact upon organizational effectiveness (Campion, Medsker & Higgs, 1993; Drexler, 1977; Franklin, 1975; Fredrickson, Jensen & Beaton, 1972; Likert, 1961,1967, and others).

The wrong perception that people have about cooperatives is that they think cooperatives as a non-profit organization. This misunderstanding has underestimated the real capabilities that the cooperatives have in social context. The truth is, cooperatives are just like normal business entity with the objective of profit maximisation. The only difference is, the cooperatives are required to use part of their profit for the benefits of their members.

It is suggested that the cooperatives make a SWOT analysis to identify what are their strengths, weaknesses, opportunities and threats. Once these have been done, they may identify what is their X-factorthat may affect their organizational performance the most. This is important because the cooperatives can give more concentration on the factors that they have the strongest values, and give less concentration on the factors that are moderate or least capacity to master in. This identification is crucial for an efficient and effective allocation of resources. Through the data analysis done in this study, the cooperatives can see which

factors have a higher level of relationship with the high performance work systems, where more allocation of sources and attention can be allocated for this area.

From the mathematical analysis, it has been shown that the human resource practices have a more influence towards the high performance work systems than organizational climate. So, the management of ANGKASA need to make some changes to the current roles played by the Human Resource Unit and transform it to be a strategic partner to every business activities or plans in the organization.

In line with the notion of the high performance work systems, the employees must be seen as the main characterin the achievement of organizational objectives, perhaps through high-involvement human resource strategies. An organization with a management that strongly values HRM and people as a source of competitive advantage is more likely to use high-involvement HRM strategies (Raduan & Naresh, 2006). High-involvement HRM strategy is typically characterized by significant delegation of authority to lower-level employees (empowerment), extensive training and development, reliance on pay for performance (significant contingent or "at-risk" pay), broadly defined job responsibilities, and employee participation in non-work aspect of organizational decision making (Butler, Ferris & Napier, 1991). Movement towards a high-involvement goal implies making better use of employee capacities for self-management, personal development and problem solving (Lorenz and Valeyre, 2005). High-involvement work processes empower workers to make more decisions, enhance the information and knowledge they need to do so, and reward them for doing so. (Boxall and Macky, 2009). When employees were given some space in the policies making, they will feel appreciated and have better organizational citizenship behaviour. All of the criteria describe by the above researchers able to promote good human resource practices and healthy organizational climate, which will lead to high performance organizational processes and outcomes.

Training and development is one of the key areas in the high performance work systems. Training and development of the employees must be given a top priority in the planning and management of an organization. Training and development can be defined as activities that have been planned in order to assist the learning related to jobknowledge, skills and employees behaviors (Noe, Hollenbeck, Gerhart & Wright, 2010). Without proper skills, knowledge, competency and capabilities to carry out the tasks assigned to them, is a catastrophic to the organization. The objectives of the organization can never be achieved without a calibre, committed, resourceful and well trained employees. Well-trained employees can share their knowledge and use their creativity to produce or serve a product to customer and understand the system development of product or service in the organization (Nazlina et al., 2011). Still many sectors, especially the cooperatives think that training and development as something which is "a waste of money" due to its indirect implication to the business. Training and development are recognized as important HRM issues in small firmsbut in terms of providing formal training, it is still being overlooked by them. This is because most employers oftenunderestimate the benefit and cost of training to small firms is not worthwhile (Storey, 2004; Westhead& Storey, 1997). They are still in a state of ignorance of the advantages and benefits should the employees of the organization are well trained and resourceful about their work related issues. Improvements in knowledge enhance ability(Boxall and Macky, 2009) of the employees to perform better in their work.

Any employee who has fulfilled his work requirement with excellence must be rewarded accordingly so that he or she will be felt appreciated and motivated to perform better in the future. Compensation can be described as an incentives of pay or reward that has been planned to stimulate individuals to join, retainand perform well over time to the firm (Lepak & Snell, 2002;Youndt et al., 1996). The objective f compensation is to motivate employees to perform their job effectively to facilitate the accomplishment of organization goals. Thus, it is crucial to decide on how employees are being paid, as it can attract talented employees orbring down a motivation of existing employees (Nazlina et al., 2011). In order to attract more and good applicants and sustain quality and talented employees, cooperatives 'should design an effective formal system of compensation since it is a potential source of achieving competitive advantage, which sequentially enhancing organizational performance' (Delery & Doty, 1996; Tzafrir, 2006).Rewards can also be used as a direct attempt to enhance motivation, which may also be improved through empowerment (enjoying more autonomous work), information (feeling better informed) and knowledge (enjoying a growth in skills) (Boxall and Macky, 2009).

5.1.1 Employees' Perception On Human Resource Practices, Organizational Climate and HPWS

The researcher will discuss about the respondent's perception on the variables been tested in this study. It purposes is to determine the level of agreement of human resource practices, organizational climate and high performance work systems among the respondents which represent the employees of ANGKASA. The explanation will be based on the table presented below.

Table 43: Item Mean and Item Variance of Organizational Climate, Human ResourcePractices and High Performance Work Systems

Items	Mean	Min	Max
Organizational Climate			
Item Mean	5.48	4.75	6.03
Item Variance	0.28	0.18	0.49
Human Resource Practices			
Item Mean	4.84	3.70	5.64
Item Variance	0.37	0.25	0.70
High Performance Work Systems			

Item Mean	5.34	4.73	5.96
Item Variance	0.28	0.17	0.46

Item mean shows the average number of answer selected by the respondents in the questionnaire, while item variance shows how far a set of numbers is spread out. The smaller the point for item variance is the better.

From the table above, the item mean for organizational climate is 5.48 with an item variance of 0.28. Looking at the item mean, it can be interpreted that the employees perceive the organizational climate as high and their opinion by average are similar as the item variance is small in number. The same assumptions can be used for the high performance work systems as it number is not so much difference with the organizational climate. But, if refer to the human resource practices, the item mean is 4.84 with an item variance of 0.37. A little bit higher from the other two, but still the dispersion of item is not so varied.

The employees' perception on organizational climate and high performance work systems are high but moderate on the human resource practices. More attention should be focused on all of the items since they have a great impact on employees' satisfaction which will reflect to the employee performance. The ability to understand what the employees think and continuously interact with them will support the implementation of better human resource practices and organizational climate in an effort towards the high performance work systems in ANGKASA. A review of the literature indicates that human resources can be key ingredients affecting organizational performance (Pfeffer, 1998;Rauch, Frese, & Utsch, 2005), source of sustainable competitive advantage (Barney, 1991; Krishnan & Singh, 2011)and the function of human resource management (HRM) (Wright, McMahan, & McWilliams, 1994).

5.1.2 Relationship between HR Practices and Organizational Climate on HPWS
The purpose of this study is to determine the relationship between the human resource practices and organizational climate towards the high performance work systems. Based on the linear correlation analysis, looking at r of the variable where r for human resource practices (Training and Development) is 0.66, while r = 0.56, p < 0.01 for human resource practices (Compensations), and r = 0.59, P < 0.01 for human resource practices (Benefits).It shows that there was a high level of relationship between human resources practices and high performance work systems. While, the correlation coefficient (r) is 0.52, p < 0.01 for organizational climate (Communication and Decision Making Process), while r for organizational climate (Bureaucracy) is -0.22, p < 0.01, and r = 0.56, p < 0.01 for organizational climate (Work Methods).

From the result obtained, it indicates that the human resource practices have slightly higherinfluence on the high performance work systems compare to organizational climates. Thus, more attention must be put on the construction of human resource practices in the organization so that a supportive and conducive working environment can be created. Indirectly, it will lead to a happy organizational climate. In different studies, many researches have proven that a supportive HR practices do increase employees' job satisfaction which in the end increase job performance and organization productivity. (Pradeep, 2000).A good organizational climate will complement the human resource practices in order to create a productive and innovative organization. Undeniably, organizational social capital has been shown toimprove performance by enabling employees to accessthe resources that are embedded within a given networkand by facilitating the transfer and sharing of knowledge(Levin and Cross 2004, Tsai and Ghoshal 1998).

5.1.3 Influence of HR Practices and Organizational Climate towards HPWS

In determining the influence of the human resource practices and organizational climate toward the high performance work systems, the researcher will be looking at the Multiple Regression (R) in the regression analysis. It was found that the relationship of the human resource practices to the high performance work systems is .723^a, while organizational climate is .501^a. It shows that, human resource practices have more influence on the high performance work systems compared to organizational climate. Thus, the human resource unit of ANGKASA has to do a drastic leap in a way how the functions and systemspracticed can be transformedinto a more high performance processes. The "high performance" HR bundles have a consistently more positive effect on unit performance than more "traditional" HR bundles (Huselid & Becker, 1997). It is about time the human resource unit of ANGKASA see itself as a strategic partner to every unit or department in ANGKASA, as 'human resource systems also affect a range of variables on a more collective level, helping to build organisational capabilities, and influencing the organisational culture, and social and psychological climate in which individuals are embedded' (Snell, 1999; Evans and Davis, 2005).

A good human resource practices been practiced in the organization will normally result to a good organizational climate. Thus, it can be said that these two independent variables are complement each other towards the high performance work systems. They are not supposed to compete, instead they must be supporting each other in the process. Having a higher multiple regression (R) does not mean that the human resource practices is more important than organizational climate, but it shows a more significant role play by human resource practices in the process. As mentioned in the first sentence of this paragraph, a good organizational climate is a result of a good human resource practices. HR systems which help to enhance trust in management and/or among peers improve an organisation's social capital', the quality of relationships within and across groups (Leana and Burren, 1999). The

individual and collective levels are inextricably linked because the performance opportunities of individuals and their motivations are influenced by the quality of resources, collaboration and trust in their working environment (Boxall and Macky, 2009).Research by Hornsby &Kuratko (2003) found that employees who were motivated and highly skilled can be a determinant of thecapability of small firms in order to maintain competitiveness in the current business environment.

5.2 RECOMMENDATIONS FOR FUTURE RESEARCH

While a large body of research has demonstrated the positive impact of highperformance practices on the financial performance of organizations, the impact on the wellbeing of workers is less well known (Pradeep, 2000). Thus, in the future research, the researcher should look at the implications of the implementation of the high performance work systems to the well-being of the employees. Those effects must be looked from the perspective of employees as well as their surroundings such as family, style of living, relationship with co-workers, and many more.

The future research also needs to focus on the actual processes experienced by workers such as involvement and intensification, 'should the study want to understand more how the high performance work systems work to influence the organisational outcomes and how they could work better' (Peter & Keith, 2009). A thorough study and longer period of data assessment must be allocated so that a detail and comprehensive conclusion can be made about the issues been analysed.

The future researcher must conduct a proper briefing on the problems of the study. The proper briefing will provide a more understanding to the problems faced by the employees. Thus, the outcomes will be more meaningful and useful to the organization.

5.3 RESEARCH IMPLICATIONS

The findings and analyses of the research are able to give thepositive implications to the organizational operational or costs efficiency in the ability to generate more profits. Undeniably, the effectiveness of human resource practices is able to reduce the unnecessary costs or operational costs which simultaneously increase profit. The employees may feel appreciated and motivated when the organization practiced a good human resource practices, that make them work harder with high level of organizational citizenship behaviour, and as a results improve the productivity level. A decline in employees' disciplinary problems will enable the organization to focus more on the production and implement effective management and decision making processes.

This research will also able to provide some insights or platform to ANGKASA and other cooperatives should they want to implement the high performance work systems. The conceptual explanations given in this study are easy to understand and able to give some basic idea to the management of the cooperatives the basic framework of high performance work systems. The cooperatives '*should consider on how to enhance the capabilities in the fields of human resource and skills development in order to increase their business success*' (McEvoy, 1984).

The information provided in this study is useful in a way as a reminder to the management that, in the process of achieving organizational performance, objectives, and

missions, the welfare of the employees must also be included in the planning and decision making process. The evidence suggests that the high performance work systems have created insecure and stressful work environments leading to deterioration in the quality of work life and increased health and safety risks. To be stable and enduring, these work systems need to be redesigned to balance the needs of workers for a safe, healthy, and challenging work environment with organizational imperatives for improvements in productivity and product quality (Pradeep, 2000).

Many researchers have observed, internal development has been linked to a number of desirable organizational effects, including greater stability and predictability of a firm's stock of human resource, higher commitment to an organization, and better coordination and control (Raduan & Naresh, 2006). The management of organization need to create a climate that promote the urge for self-development, and healthy competition among the employees by emphasizing learning organization, job redesign, job rotation, succession planning and many more. The job assigned to the employees must be made challenging so that they will find their work is interesting. One cannot argue with the view that a major reason for labour turnover is that employees are leaving because they find their jobs uninteresting (Boxall et al., 2003).

5.4 CONCLUSIONS

This research is designed to study the relationship between human resource practices and organizational climate towards the practice of high performance work systems in ANGKASA.The research model explained that there is an existence of relationship between human resource practices and organizational climate towards high performance work systems. Based on the data analysis, a researcher found that majority of the employees is more concerned with the human resource practices. It is important that a firm adopt human resource practices that make best use of its employees. This trend has led to increased interest in the impact of human resource management on the organizational performance, and a number of studies have found a positive relationship between so-called "high-performance work practices" (Huselid, 1995) and company performance (Raduanm& Naresh,2006).

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APPENDIX A: QUESTIONNAIRE

BAHAGIAN A (IKLIM ORGANISASI - mengukur apakah persepsi pekerja terhadap iklim atau suasana dalam sistem organisasi ini)

		SSTB				SSB		
1	Organisasi ini bertindak pantas menggunakan kaedah kerja yang telah ditambahbaikan	1	2	3	4	5	6	7
2	Organisasi ini mempunyai matlamat dan objektif yang jelas dan sesuai	1	2	3	4	5	6	7
3	Organisasi ini mengurus aktiviti-aktiviti kerjanya dengan dengan cara yang paling munasabah	1	2	3	4	5	6	7
4	Organisasi ini akan membuat keputusan pada peringkat di mana maklumat-maklumat yang	1	2	3	4	5	6	7

	diperolehi adalah paling lengkap dan tepat							
5	Organisasi ini membenarkan setiap kumpulan kerja memperolehi maklumat yang mencukupi, berkaitan perkembangan dalam jabatan-jabatan lain	1	2	3	4	5	6	7
6	Organisasi ini menyatakan kepada kumpulan kerja, cara terbaik yang perlu diketahui untuk melaksanakan kerja mereka	1	2	3	4	5	6	7
7	Selain daripada ketua saya, pihak atasan lain juga menerima idea dan cadangan daripada kumpulan kerja saya	1	2	3	4	5	6	7
8	Organisasi ini mengamalkan komunikasi dua hala dalam menyelesaikan masalah secara berkesan antara jabatan	1	2	3	4	5	6	7
9	Di organisasi ini, para pekerja menerima kesan daripada keputusan yang dicapai sekiranya ia adalah hasil daripada sumbangan idea mereka	1	2	3	4	5	6	7
10	Di organisasi ini, para pekerja yang terlibat dalam membuat keputusan, boleh memperolehi maklumat yang diperlukan daripada semua peringkat organisasi	1	2	3	4	5	6	7
11	Di organisasi ini, pihak pengurusan mempengaruhi apa-apa operasi atau kerja yang sedang dilaksanakan di jabatan anda	1	2	3	4	5	6	7
12	Di organisasi ini, para pekerja bukan pengurusan mempengaruhi apa-apa operasi atau kerja yang sedang dilaksanakan dalam jabatan anda	1	2	3	4	5	6	7
13	Di organisasi ini, para pekerja tidak berkesempatan mendapatkan pandangan daripada pekerja lain bila mereka memerlukannya	1	2	3	4	5	6	7
14	Di organisasi ini, para pekerja terpaksa melalui kerenah birokrasi untuk melaksanakan sesuatu kerja yang diamanahkan	1	2	3	4	5	6	7
15	Di organisasi ini, para pekerja akan sentiasa berhadapan dengan peraturan dan undang-undang yang sukar dijelaskan oleh mana-mana pihak	1	2	3	4	5	6	7

16	Di organisasi ini, para pekerja perlu meneliti dan	1	2	3	4	5	6	7
	merujuk banyak peraturan dan undang-undang							
	untuk melaksanakan kerja-kerja mereka							
17	Di organisasi ini, para pekerja sentiasa berhadapan	1`	2	3	4	5	6	7
	dengan pelbagai piawaian dalam prosedur							
	perlaksanaan kerja-kerja mereka							

BAHAGIAN B : AMALAN KERJA BERPRESTASI TINGGI

18	Para pekerja organisasi ini dibenarkan terlibat dalam apa-apa program perkongsian maklumat secara formal	1	2	3	4	5	6	7
19	Kerja-kerja yang dilakukan oleh para pekerja adalah berdasarkan kepada analisis kerja (proses mengumpul maklumat berkaitan kerja) secara formal	1	2	3	4	5	6	7
20	Lantikan secara dalaman lebih diutamakan bagi mengisi jawatan-jawatan dalam organisasi sejak kebelakangan ini	1	2	3	4	5	6	7
21	Organisasi ini melaksanakan tinjauan ke atas sikap pekerja mereka secara berkala	1	2	3	4	5	6	7
22	Para pekerja organisasi ini terlibat dalam program- program berkaitan kualiti kerja yang dianjurkan oleh organisasi	1	2	3	4	5	6	7
23	Para pekerja organisasi ini dibenarkan terlibat dalam setiap perancangan pelan program pemberian insentif organisasi	1	2	3	4	5	6	7
24	Para pekerja organisasi ini mempunyai peluang untuk mengikuti latihan secara formal yang mencukupi	1	2	3	4	5	6	7
25	Para pekerja di organisasi ini dibenarkan terlibat dalam setiap bentuk penyelesaian berkaitan peraturan kilanan <i>(ketidakpuasan)</i> dan sistem aduan pekerja di organisasi	1	2	3	4	5	6	7
26	Organisasi ini menjalankan ujian tertentu ke atas	1	2	3	4	5	6	7

	para pekerja sebelum diambil berkerja							
27	Penilaian prestasi menjadi penentu dalam setiap pakej ganjaran pekerjaan yang akan diperolehi oleh mereka	1	2	3	4	5	6	7
28	Di organisasi ini, para pekerja diberi penilaian prestasi mereka secara formal	1	2	3	4	5	6	7
29	Di organisasi ini, setiap amalan kenaikan pangkat adalah mengikut peraturan biasa yang diamalkan secara adil	1	2	3	4	5	6	7
30	Di organisasi ini, setiap jawatan yang ditawarkan akan dipenuhi oleh mereka yang benar-benar layak sahaja	1	2	3	4	5	6	7

BAHAGIAN C : AMALAN PENGURUSAN SUMBER MANUSIA

31	Saya digalakkan mengikuti program latihan dan pembangunan yang disediakan oleh majikan	1	2	3	4	5	6	7
32	Ketua saya menentukan program latihan dan pembangunan yang saya perlukan	1	2	3	4	5	6	7
33	Saya diberi peluang untuk meningkatkan kemahiran dan pengetahuan bagi menambahbaik prestasi saya menerusi latihan berterusan	1	2	3	4	5	6	7
34	Saya mendapat latihan yang diperlukan untuk melaksanakan tugasan jawatan saya dengan baik	1	2	3	4	5	6	7
35	Saya diberi peluang untuk terlibat dalam aktiviti yang boleh membantu meningkatkan tahap kemahiran/kepakaran saya	1	2	3	4	5	6	7
36	Saya boleh membuat capaian maklumat bagi tujuan perancangan kerjaya saya	1	2	3	4	5	6	7
37	Saya dibawa berbincang mengenai peluang pembangunan kerjaya oleh ketua saya	1	2	3	4	5	6	7
38	Saya diberi peluang yang sewajarnya untuk kemajuan kerjaya saya	1	2	3	4	5	6	7
39	Saya berpuas hati dengan cara kenaikan pangkat	1	2	3	4	5	6	7

	yang dilaksanakan oleh syarikat							
40	Kenaikan pangkat ditentukan mengikut merit berasaskan prestasi kerja	1	2	3	4	5	6	7
41	Dalam syarikat ini, kenaikan pangkat ditentukan secara adil	1	2	3	4	5	6	7
42	Saya menerima penghargaan untuk pencapaian saya	1	2	3	4	5	6	7
43	Gaji yang saya terima menggalakkan saya untuk melaksanakan kerja dengan lebih baik	1	2	3	4	5	6	7
44	Insentif, seperti bonus memotivasikan saya untuk melakukan lebih daripada yang diperlukan	1	2	3	4	5	6	7
45	Saya menerima jumlah gaji yang setimpal dengan kerja yang saya lakukan	1	2	3	4	5	6	7
46	Secara umumnya, gaji saya adalah setara/sama dengan gaji rakan sekerja yang memegang jawatan yang setaraf dengan saya.	1	2	3	4	5	6	7
47	Secara amnya, gaji saya adalah setara/sama dengan gaji bagi pekerjaan yang serupa yang dibayar oleh syarikat lain dalam industri yang sama	1	2	3	4	5	6	7
48	Saya dinilai dengan adil berdasarkan prestasi kerja saya	1	2	3	4	5	6	7
49	Penilaian prestasi adalah berdasarkan prestasi kerja individu	1	2	3	4	5	6	7
50	Sumbangan individu adalah digalakkan dan dihargai	1	2	3	4	5	6	7
51	Saya mampu melakukan sesuatu yang bermanfaat dalam pekerjaan saya	1	2	3	4	5	6	7
52	Saya dapat melihat hasil kerja yang saya lakukan	1	2	3	4	5	6	7
53	Saya boleh berbangga apabila tugasan berjaya disempurnakan dengan baik	1	2	3	4	5	6	7
54	Saya diberikan peluang untuk melakukan yang terbaik pada setiap masa	1	2	3	4	5	6	7
55	Ketua saya memberi sokongan dan galakan dengan sentiasa memberi maklumbalas tentang prestasi	1	2	3	4	5	6	7

	kerja sa	уа								
56	Pekerjaan saya dapat memberi suatu kepua kepada saya			1	2	3	4	5	6	7
Baha	igian D - D	EMOGRAFI			1		L			
	57	Umur	Kurang o tahun 20 tahun 25 tahun 30 tahun	dari 20 - 24 ta - 29 ta - 34 ta	hun hun hun		35 ta tahur 40 ta tahur 45 ta tahur 50 ta	hun – 3 hun – 4 hun – 4 hun – 4	39 14 19 atas	
	58	Jantina	Lelaki				Perer	npuan		
	59	Bangsa	Melayu Cina			lr L	ndia ain-lain	(nyatak	an)	
	60	Tahap Pendidikan	Darjah 6, SRP SPM Diploma STPM Ijazah Sa Ijazah Sa Doktor F	/ Sijil Ke arjana M arjana alsafah	emahir	an				

61	Tempoh Berkhidmat (Nyatakan):Tahun
62	Jawatan (Nyatakan):

-Terima Kaseh-

1 RELIABILITY ANALYSIS DURING PILOT TEST

1.1 RELIABILITY ANALYSIS DURING PILOT TEST FOR ORGANIZATIONAL CLIMATE

Reliability Statistics									
	Cronbach's Alpha								
Cronbach's	Based on								
Alpha	Standardized Items	N of Items							
.644	.701	17							

1.2 RELIABILITY ANALYSIS DURING PILOT TEST FOR HIGH PERFORMANCE WORK SYSTEMS

Reliability Statistics								
	Cronbach's Alpha							
Cronbach's	Based on							
Alpha	Standardized Items	N of Items						
.796	.829	13						

1.3 RELIABILITY ANALYSIS DURING PILOT TEST FOR HUMAN RESOURCE PRACTICES

Reliability Statistics								
	Cronbach's Alpha							
Cronbach's	Based on							
Alpha	Standardized Items	N of Items						
.910	.910	26						

2 THE RELIABILITY ANALYSIS FOR THE REAL SURVEY ON 261 SAMPLES

2.1 RELIABILITY ANALYSIS FOR ORGANIZATIONAL CLIMATE

	Reliability Statistics										
	Cronbach's Alpha										
Cronbach's	Based on										
Alpha	Standardized Items	N of Items									
.358	.439	17									

RELIABILITY ANALYSIS FOR ORGANIZATIONAL CLIMATE AFTER ITEM OC14 WAS DELETED

Reliability Statistics										
	Cronbach's Alpha									
Cronbach's	Based on									
Alpha	Standardized Items	N of Items								
.459	.510	16								

RELIABILITY ANALYSIS FOR ORGANIZATIONAL CLIMATE AFTER ITEM OC20 WAS DELETED

	Reliability Statistics										
	Cronbach's Alpha										
Cronbach's											
Alpha	Standardized Items	N of Items									
.570	.580	15									

RELIABILITY ANALYSIS FOR ORGANIZATIONAL CLIMATE AFTER ITEM OC18 WAS DELETED

	Reliability Statistics												
	Cronbach's Alpha												
Cronbach's	Based on												
Alpha	Standardized Items	N of Items											
.654	.645	14											

2.2 RELIABILITY ANALYSIS FOR HUMAN RESOURCE PRACTICES

	Reliability Statistics											
	Cronbach's Alpha											
Cronbach's	Based on											
Alpha	Standardized Items	N of Items										
.899	.890	26										

2.3RELIABILITY ANALYSIS FOR HIGH PERFORMANCE WORK SYSTEMS

	Reliability Statistics											
Cronbach's	Based on											
Alpha	Standardized Items	N of Items										
.780	.812	13										

3.3 FACTOR ANALYSIS

3.1 FACTOR ANALYSIS FOR ORGANIZATIONAL CLIMATE

KMO and Bartlett's Test										
Kaiser-Meyer-O	.795									
Sampling Adequ										
Bartlett's Test	Approx. Chi-Square	907.681								
of Sphericity	df	91								
	Sig.	.000								

					Anti-image	Matrices f	for Organizatio	nal Climate)						
		OC1	OC2	OC3	OC4	OC5	OC6	OC7	OC8	OC15	OC16	OC17	OC19	OC21	OC22
Anti-image	OC1	.583	263	093	076	013	024	.012	.025	061	003	099	.019	.075	.004
Covariance	OC2	263	.653	.009	077	.003	.050	055	090	063	036	012	047	.007	047
	OC3	093	.009	.657	191	.026	122	073	055	076	027	045	027	027	.036
	OC4	076	077	191	.681	080	086	012	.086	.007	.027	.003	013	.001	.091
	OC5	013	.003	.026	080	.621	008	174	094	207	.011	038	.017	028	.017
	OC6	024	.050	122	086	008	.679	166	084	013	.084	034	.072	.042	024
	OC7	.012	055	073	012	174	166	.674	089	014	008	.087	.037	.031	085
	OC8	.025	090	055	.086	094	084	089	.754	121	050	.000	.027	064	.071
	OC15	061	063	076	.007	207	013	014	121	.589	.069	099	044	.065	018
	OC16	003	036	027	.027	.011	.084	008	050	.069	.778	.113	180	.054	108
	OC17	099	012	045	.003	038	034	.087	.000	099	.113	.854	.000	005	055
	OC19	.019	047	027	013	.017	.072	.037	.027	044	180	.000	.623	173	134
	OC21	.075	.007	027	.001	028	.042	.031	064	.065	.054	005	173	.586	245
	OC22	.004	047	.036	.091	.017	024	085	.071	018	108	055	134	245	.578
Anti-image	OC1	.802 ^a	425	150	121	021	038	.019	.038	104	004	140	.032	.128	.007
Correlation	OC2	425	.750 ^a	.014	115	.005	.075	082	129	101	050	016	074	.012	077
	OC3	150	.014	.844 ^a	286	.041	182	110	078	121	038	061	042	044	.059
	OC4	121	115	286	.834 ^a	122	127	018	.120	.010	.037	.004	021	.001	.145
	OC5	021	.005	.041	122	.816 ^a	012	269	138	342	.016	052	.027	046	.028
	OC6	038	.075	182	127	012	.852 ^a	245	118	020	.115	045	.110	.067	038
	OC7	.019	082	110	018	269	245	.801ª	125	022	011	.115	.058	.049	136
	OC8	.038	129	078	.120	138	118	125	.812 ^a	182	066	.000	.040	097	.108
	OC15	104	101	121	.010	342	020	022	182	.835 ^a	.102	139	073	.111	030
	OC16	004	050	038	.037	.016	.115	011	066	.102	.755 ^ª	.138	258	.080	161
	OC17	140	016	061	.004	052	045	.115	.000	139	.138	.798 ^a	001	006	078
	OC19	.032	074	042	021	.027	.110	.058	.040	073	258	001	.769 ^a	287	223
	OC21	.128	.012	044	.001	046	.067	.049	097	.111	.080	006	287	.722 ^a	421
	OC22	.007	077	.059	.145	.028	038	136	.108	030	161	078	223	421	.710 ^a
a. Measures o	of Sampling Adequacy(M	SA)													

		Total Var	iance Explaine	d for Organi	izational Cli	mate					
	Initial	Eigenvalues			Loadings		Loadings				
		% of			% of	Cumulativ		% of	Cumulativ		
Component	Total	Variance	Cumulative %	Total	Variance	e %	Total	Variance	e %		
1	3.896	27.832	27.832	3.896	27.832	27.832	2.436	17.402	17.402		
2	2.014	14.385	42.217	2.014	14.385	42.217	2.378	16.986	34.388		
3	1.220	8.716	50.932	1.220	8.716	50.932	2.316	16.544	50.932		
4	1.044	7.461	58.393								
5	.968	6.914	65.307								
6	.737	5.262	70.569								
7	.723	5.167	75.736								
8	.684	4.887	80.623								
9	.547	3.908	84.531								
10	.513	3.665	88.196								
11	.472	3.373	91.569								
12	.428	3.056	94.625								
13	.397	2.835	97.460								
14	.356	2.540	100.000								
Extraction Metho	d: Principal Componer	nt Analysis.	1								

Organizatio	onal Climate -Rotate	d Component	Matrix ^a
	Co	omponent	
	1	2	3
OC7	.759		
OC5	.697		
OC8	.669		
OC6	.584		
OC15	.555		
OC22		.801	
OC19		.791	
OC21		.748	
OC16		.564	
OC1			.804
OC2			.727
OC4			.555
OC3			.504
OC17			
Extraction Method: Rotation Method:	Principal Componer Varimax with Kaiser	nt Analysis. Normalization.	
a. Rotation converg	ged in 4 iterations.		

3.2 FACTOR ANALYSIS FOR HUMAN RESOURCE PRACTICES

STEP 1:

KMO and Bartlett's Test											
Kaiser-Meyer-Ol	.856										
Sampling Adequ											
Bartlett's Test	Approx. Chi-Square	3047.094									
of Sphericity	df	325									
	Sig.	0.000									

										Ant	i-image Matı	rices for Hu	uman Resou	ce Practio	es												
		HRP36	HRP37	HRP38	HRP39	HRP40	HRP41	HRP42	HRP43	HRP44	HRP45	HRP46	HRP47	HRP48	HRP49	HRP50	HRP51	HRP52	HRP53	HRP54	HRP55	HRP56	HRP57	HRP58	HRP59	HRP60	HRP61
Anti-image	HRP36	.587	.001	029	120	080	018	037	.038	044	066	.123	121	.006	.026	.016	030	.041	017	.016	.039	060	040	.011	064	.000	004
Covariance	HRP37	.001	.830	008	018	.068	.075	029	.056	.056	.050	108	005	012	017	.013	013	.020	.035	034	.009	036	.054	.040	021	.080	083
	HRP38	029	008	.617	097	.058	069	.068	053	.081	114	.003	043	.058	045	136	.012	.058	050	006	049	045	.098	026	.057	060	032
	HRP39	- 120	- 018	- 097	452	009	.015	- 021	- 129	- 100	- 036	005	.009	- 007	.090	036	.026	.005	.075	014	050	065	- 023	074	.033	021	.014
	HRP40	- 080	068	058	- 009	561	- 067	- 062	- 065	004	- 055	- 043	- 071	- 013	003	- 035	024	027	057	- 114	- 108	- 022	024	- 055	060	- 051	055
	HPP/1	- 018	075	- 069	.000	- 067	.007	.002	- 022	- 052	- 113	- 095	- 026	- 108	115	.000	012	- 058	076	- 004	046	023	.021	- 037	- 114	047	- 056
		010	.075	003	.013	007		505	022	032	113	035	020	100	045	.002		030	.070	004	.040	.023	.013	007	114	.047	000
	110742	037	029	.000	021	002	.002	.090	091	035	002	.030	110	.033	045	049	000	.043	.000	.070	*.092	.013	044	.017	041	055	.021
	HRP43	.038	.056	053	129	065	022	091	.482	.029	.091	.015	045	.001	037	023	.055	035	048	.024	.002	054	015	.000	008	.027	058
	HRP44	044	.056	.081	100	.004	052	035	.029	.504	.040	1/1	.004	.005	077	058	016	.007	075	.071	023	.020	.006	.068	.023	.018	064
	HRP45	066	.050	114	036	055	113	002	.091	.040	.671	039	.070	.154	182	.062	.006	047	084	079	.008	.029	054	006	.021	.068	023
	HRP46	.123	108	.003	005	043	095	.036	.015	171	039	.370	101	001	.014	.044	.009	.006	042	054	076	001	108	036	.046	041	.012
	HRP47	121	005	043	.009	071	026	110	045	.004	.070	101	.504	034	.037	.028	.005	041	085	056	.024	004	019	005	033	.067	.023
	HRP48	.006	012	.058	007	013	108	.033	.001	.005	.154	001	034	.435	272	.017	054	.049	.029	053	017	089	.075	075	.103	033	025
	HRP49	.026	017	045	.090	.003	.115	045	037	077	182	.014	.037	272	.440	007	.050	025	.039	085	.001	.054	039	040	030	.027	017
	HRP50	.016	.013	136	.036	035	.002	049	023	058	.062	.044	.028	.017	007	.367	143	079	.058	057	015	052	046	029	010	.062	049
	HRP51	030	013	.012	.026	.024	.012	006	.055	016	.006	.009	.005	054	.050	143	.375	152	029	067	.016	.038	.020	010	073	017	.005
	HRP52	.041	.020	.058	.005	.027	058	.043	035	.007	047	.006	041	.049	025	079	152	.304	016	.104	070	059	001	006	.105	127	.035
	HRP53	017	.035	050	.075	.057	.076	.006	048	075	084	042	085	.029	.039	.058	029	016	.518	062	006	080	028	093	.021	086	.014
	HRP54	.016	034	006	014	114	004	.070	.024	.071	079	054	056	053	085	057	067	.104	062	.724	.088	028	.001	.067	055	004	.027
	HRP55	.039	.009	049	050	108	.046	092	.002	023	.008	076	.024	017	.001	015	.016	070	006	.088	.523	.002	.014	014	132	.064	034
	HRP56	060	036	045	065	022	.023	.013	054	.020	.029	001	004	089	.054	052	.038	059	080	028	.002	.405	109	.011	094	.024	.005
	HRP57	040	.054	.098	023	.024	.015	- 044	- 015	.006	- 054	- 108	- 019	075	039	- 046	.020	001	028	.001	.014	- 109	455	- 025	.012	- 026	064
	HRP58	011	040	- 026	- 074	- 055	- 037	017	000	068	- 006	- 036	- 005	- 075	- 040	- 029	- 010	- 006	- 093	067	- 014	011	- 025	417	- 100	- 033	- 036
	HRP50	- 064	- 021	020	014	060	007	- 041	- 008	.000	000	0.050	003	103	040	023	073	000	033	- 055	014	- 094	023	- 100	100	053	- 073
	HRF55	004	021	.037	.033	.000	114	041	000	.023	.021	.040	033	.103	030	010	073	105	.021	033	*.132	094	.012	100	.442	055	073
	LIDDGA	.000	.000	000	021	051	.047	000	.027	.010	.000	041	.007	033	.027	.002	017	*.127	000	004	.004	.024	020	033	055	.300	134
A		004	083	032	.014	.055	050	.021	056	064	023	.012	.023	025	017	049	.005	.035	.014	.027	034	.005	064	030	073	154	.410
Anti-Image Correlation	HRP36	.857*	.001	049	233	139	033	062	.071	080	106	.265	222	.012	.051	.035	064	.096	032	.024	.071	123	078	.023	126	.000	008
Controlución	HRP37	.001	.772*	012	029	.100	.117	041	.088	.087	.067	195	008	019	028	.024	023	.040	.053	044	.014	063	.089	.069	034	.142	140
	HRP38	049	012	.821 ^a	183	.099	126	.112	097	.146	177	.007	077	.111	087	286	.025	.133	088	009	085	091	.186	052	.108	123	063
	HRP39	233	029	183	.890 ^a	017	.031	040	278	210	066	013	.018	017	.203	.088	.064	.013	.155	024	103	153	050	171	.074	050	.033
	HRP40	139	.100	.099	017	.895 ^a	127	108	124	.007	090	095	133	026	.006	077	.053	.066	.107	179	200	045	.048	113	.121	111	.114
	HRP41	033	.117	126	.031	127	.873 ^a	.004	045	105	198	223	052	235	.249	.006	.028	151	.150	007	.090	.052	.033	083	245	.110	125
	HRP42	062	041	.112	040	108	.004	.916 ^a	170	064	003	.076	201	.064	088	104	014	.102	.012	.106	165	.026	085	.033	080	115	.041
	HRP43	.071	.088	097	278	124	045	170	.922 ^a	.060	.161	.035	092	.003	081	055	.130	090	095	.041	.005	123	033	.001	017	.063	129
	HRP44	080	.087	.146	210	.007	105	064	.060	.862 ^a	.068	395	.008	.010	163	135	037	.017	146	.118	044	.044	.013	.148	.049	.040	138
	HRP45	106	.067	177	066	090	198	003	.161	.068	.479 ^a	079	.121	.286	335	.125	.013	104	142	113	.013	.055	098	012	.039	.135	043
	HRP46	.265	195	.007	013	095	223	.076	.035	395	079	.835 ^a	235	003	.034	.121	.025	.018	097	105	172	003	265	093	.114	109	.031
	HRP47	222	008	077	.018	133	052	201	092	.008	.121	235	.905 ^a	073	.079	.066	.011	104	167	092	.046	009	040	011	070	.154	.051
	HRP48	.012	019	.111	017	026	235	.064	.003	.010	.286	003	073	.478 ^a	623	.042	133	.135	.062	094	035	212	.168	176	.234	081	059
	HRP49	.051	028	087	.203	.006	.249	088	081	163	335	.034	.079	623	.441ª	017	.123	068	.082	151	.003	.128	086	093	067	.066	040
	HRP50	.035	.024	286	.088	077	.006	104	055	135	.125	.121	.066	.042	017	861 ^a	384	235	.132	110	035	135	113	075	024	.166	125
	HRP51	064	- 023	025	.064	.053	.028	- 014	130	- 037	.013	.025	.011	- 133	123	- 384	817 ^a	- 449	066	- 128	.036	.098	.050	- 026	- 179	- 046	.012
	HRP52	.096	.040	.133	.013	.066	- 151	.102	- 090	.017	- 104	.018	- 104	135	068	- 235	- 449	8023	041	222	- 175	- 169	002	018	285	- 372	.098
	HPP53	- 032	053	- 088	155	107	150	012	- 095	- 146	- 142	- 097	- 167	062	082	132	- 066	- 0/1	0008	- 100	- 012	- 174	- 058	- 200	043	- 103	020
	HRP54	032	- 044	000	- 024	- 179	- 007	106	033	118	- 113	007	107	- 094	- 151	- 110	000	0+1	.693	100 507 ^a	012	174	030	123	- 097	133	.023
	UDDEE	.024	044	009	*.024	179	007	.100	.041	.110	113	103	092	034	151	110	0.120	.222	100	.527	.143	032	.002	.123	097	007	.049
1	LIDDEC	.071	.014	065	103	200	.080	105	.005	044	.013	172	.040	035	.003	035	.036	175	012	.143	.911*	.004	.029	030	274	.144	073
1	UDD57	123	063	091	153	045	.052	.026	123	.044	.055	003	009	212	.128	135	.098	169	1/4	052	.004	.918*	255	.027	223	.061	.013
1	NKP5/	078	.089	.186	050	.048	.033	085	033	.013	098	265	040	.168	086	113	.050	002	058	.002	.029	255	.921ª	058	.026	064	148
	нкР58	.023	.069	052	171	113	083	.033	.001	.148	012	093	011	176	093	075	026	018	200	.123	030	.027	058	.937ª	233	082	086
	HRP59	126	034	.108	.074	.121	245	080	017	.049	.039	.114	070	.234	067	024	179	.285	.043	097	274	223	.026	233	.834 ^a	128	170
1	HRP60	.000	.142	123	050	111	.110	115	.063	.040	.135	109	.154	081	.066	.166	046	372	193	007	.144	.061	064	082	128	.854 ^a	387
	HRP61	008	140	063	.033	.114	125	.041	129	138	043	.031	.051	059	040	125	.012	.098	.029	.049	073	.013	148	086	170	387	.909ª
a. Measures of	Sampling Adequacy(M	SA)																									
		Total Variar	nce Explained f	or Human R	esource Pr	actices																					
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	Initial	Eigenvalues			Loadings	'		Loadings																			
	Tatal	% of		Tatal	% of	Cumulativ	Tatal	% of	Cumulativ																		
Component	lotal	Variance	Cumulative %	lotal	Variance	e %	Iotal	Variance	e %																		
1	8.339	32.073	32.073	8.339	32.073	32.073	5.839	22.459	22.459																		
2	2.029	7.805	39.878	2.029	7.805	39.878	4.333	16.666	39.125																		
3	1.842	7.085	46.964	1.842	7.085	46.964	2.038	7.839	46.964																		
4	1.324	5.092	52.056																								
5	1.264	4.863	56.918																								
6	1.043	4.012	60.930																								
7	1.006	3.869	64.799																								
8	.913	3.512	68.311																								
9	.873	3.358	71.669																								
10	.806	3.099	74.767																								
11	.716	2.754	77.521																								
12	.652	2.509	80.030																								
13	.601	2.310	82.340																								
14	.583	2.243	84.582																								
15	.569	2.189	86.771																								
16	.461	1.775	88.546																								
17	.424	1.631	90.176																								
18	.410	1.577	91.753																								
19	.398	1.530	93.283																								
20	.333	1.280	94.564																								
21	.311	1.197	95.760																								
22	.265	1.020	96.781																								
23	.252	.969	97.750																								
24	.216	.832	98.582																								
25	.209	.806	99.388																								
26	.159	.612	100.000																								
Extraction Metho	od: Principal Componer	nt Analysis.				<u> </u>																					

As there are 3 items that have an 'a-square' which is below 0.50, another factor analysis will be conducted.

Factor Analysis Human Resource Practices- STEP 2

KMO and Bartlett's Test										
Kaiser-Meyer-Olkin Measure of .891										
Sampling Adequ	ласу.									
Bartlett's Test	Approx. Chi-Square	2698.984								
of Sphericity	df	253								
Sig. 0.000										

	Anti-image Matrices for human resource practices step 2																							
		HRP36	HRP37	HRP38	HRP39	HRP40	HRP41	HRP42	HRP43	HRP44	HRP46	HRP47	HRP50	HRP51	HRP52	HRP53	HRP54	HRP55	HRP56	HRP57	HRP58	HRP59	HRP60	HRP61
Anti-image	HRP36	.596	.009	047	141	086	030	038	.052	036	.121	119	.022	029	.035	034	.022	.042	057	053	.024	076	.009	002
Covariance	HRP37	.009	.837	.003	011	.072	.089	029	.048	.051	106	012	.010	016	.028	.049	043	.007	047	.067	.035	016	.077	086
	HRP38	047	.003	.659	107	.051	078	.062	040	.091	005	019	136	.029	.041	078	031	047	023	.080	025	.049	040	039
	HRP39	141	011	107	.481	009	003	014	129	085	011	.004	.038	.022	.003	.063	.026	050	074	028	057	.027	025	.026
	HRP40	086	.072	.051	009	.566	082	065	061	.004	047	066	030	.026	.024	.056	142	109	020	.021	066	.069	047	.053
	HRP41	030	.089	078	003	082	.533	.014	008	042	111	032	.013	001	061	.074	008	.048	.009	.028	050	111	.053	066
	HRP42	038	029	.062	014	065	.014	.601	096	044	.036	108	049	.000	.040	.007	.067	092	.023	055	.016	049	051	.019
	HRP43	.052	.048	040	129	061	008	096	.498	.019	.022	058	032	.057	027	032	.025	.000	068	004	012	003	.018	062
	HRP44	036	.051	.091	085	.004	042	044	.019	.525	175	.007	062	013	.010	063	.049	026	.021	.011	.052	.035	.019	076
	HRP46	.121	106	005	011	047	111	.036	.022	175	.372	101	.049	.010	.002	052	061	075	.002	120	037	.048	038	.012
	HRP47	119	012	019	.004	066	032	108	058	.007	101	.521	.022	005	030	081	044	.022	022	002	005	029	.056	.028
	HRP50	.022	.010	136	.038	030	.013	049	032	062	.049	.022	.374	150	079	.067	050	016	059	045	028	015	.058	047
	HRP51	029	016	.029	.022	.026	001	.000	.057	013	.010	005	150	.384	153	027	069	.014	.027	.036	016	068	028	.005
	HRP52	.035	.028	.041	.003	.024	061	.040	027	.010	.002	030	079	153	.317	032	.119	070	047	019	.004	.102	124	.038
	HRP53	034	.049	078	.063	.056	.074	.007	032	063	052	081	.067	027	032	.544	053	002	073	050	082	.006	081	.021
	HRP54	.022	043	031	.026	142	008	.067	.025	.049	061	044	050	069	.119	053	.807	.094	035	.001	.024	034	.010	.006
	HRP55	.042	.007	047	050	109	.048	092	.000	026	075	.022	016	.014	070	002	.094	.524	003	.020	022	136	.064	036
	HRP56	057	047	023	074	020	.009	.023	068	.021	.002	022	059	.027	047	073	035	003	.431	097	005	083	.010	.003
	HRP57	053	.067	.080	028	.021	.028	055	004	.011	120	002	045	.036	019	050	.001	.020	097	.479	012	009	011	067
	HRP58	.024	.035	025	057	066	050	.016	012	.052	037	005	028	016	.004	082	.024	022	005	012	.462	084	041	058
	HRP59	076	016	.049	.027	.069	111	049	003	.035	.048	029	015	068	.102	.006	034	136	083	009	084	.473	050	068
	HRP60	.009	.077	040	025	047	.053	051	.018	.019	038	.056	.058	028	124	081	.010	.064	.010	011	041	050	.395	160
	HRP61	002	086	039	.026	.053	066	.019	062	076	.012	.028	047	.005	.038	.021	.006	036	.003	067	058	068	160	.425
Anti-image	HRP36	.849 ^a	.012	074	263	149	054	063	.096	065	.257	213	.047	061	.080	060	.032	.076	113	100	.046	144	.018	005
Correlation	HRP37	.012	.766 ^a	.005	017	.105	.133	041	.075	.077	190	018	.017	028	.055	.073	052	.011	078	.106	.056	025	.133	145
	HRP38	074	.005	.858 ^a	191	.084	132	.099	069	.155	009	033	274	.058	.089	130	043	081	042	.142	045	.088	078	073
	HRP39	263	017	191	.908 ^a	016	007	025	263	168	025	.009	.091	.052	.009	.123	.042	100	163	058	120	.057	057	.058
	HRP40	149	.105	.084	016	.891 ^a	149	111	115	.008	102	122	066	.057	.058	.101	210	201	041	.041	129	.133	100	.108
	HRP41	054	.133	132	007	149	.910 ^a	.024	016	079	249	061	.030	002	148	.138	012	.091	.018	.056	101	220	.115	138
	HRP42	063	041	.099	025	111	.024	.921 ^a	175	078	.077	192	103	.000	.092	.013	.096	165	.045	103	.030	092	105	.038
	HRP43	.096	.075	069	263	115	016	175	.934 ^a	.037	.051	115	074	.130	069	062	.039	001	148	009	024	007	.041	135
	HRP44	065	.077	.155	168	.008	079	078	.037	.882ª	395	.014	140	028	.025	117	.075	050	.044	.021	.106	.071	.042	161
	HRP46	.257	190	009	025	102	249	.077	.051	395	.828 ^a	229	.131	.028	.007	116	112	170	.005	285	089	.114	099	.031
	HRP47	213	018	033	.009	122	061	192	115	.014	229	.923 ^a	.050	012	074	153	069	.043	046	004	011	059	.123	.060
	HRP50	.047	.017	274	.091	066	.030	103	074	140	.131	.050	.865 ^a	396	230	.149	090	036	147	106	067	035	.152	117
	HRP51	061	028	.058	.052	.057	002	.000	.130	028	.028	012	396	.829 ^a	437	058	125	.032	.065	.084	037	160	071	.013
	HRP52	.080	.055	.089	.009	.058	148	.092	069	.025	.007	074	230	437	.824 ^a	077	.236	171	128	049	.010	.264	350	.104
	HRP53	060	.073	130	.123	.101	.138	.013	062	117	116	153	.149	058	077	.911 ^a	080	003	151	098	163	.012	175	.043
	HRP54	.032	052	043	.042	210	012	.096	.039	.075	112	069	090	125	.236	080	.408 ^a	.144	059	.001	.039	054	.018	.010
	HRP55	.076	.011	081	100	201	.091	165	001	050	170	.043	036	.032	171	003	.144	.912 ^a	006	.040	045	273	.141	077
	HRP56	113	078	042	163	041	.018	.045	148	.044	.005	046	147	.065	128	151	059	006	.945 ^a	213	010	183	.024	.006
	HRP57	100	.106	.142	058	.041	.056	103	009	.021	285	004	106	.084	049	098	.001	.040	213	.933 ^a	026	018	026	148
	HRP58	.046	.056	045	120	129	101	.030	024	.106	089	011	067	037	.010	163	.039	045	010	026	.959 ^a	180	095	130
	HRP59	144	025	.088	.057	.133	220	092	007	.071	.114	059	035	160	.264	.012	054	273	183	018	180	.871 ^a	116	153
	HRP60	.018	.133	078	057	100	.115	105	.041	.042	099	.123	.152	071	350	175	.018	.141	.024	026	095	116	.873 ^a	391
	HRP61	005	145	073	.058	.108	138	.038	135	161	.031	.060	117	.013	.104	.043	.010	077	.006	148	130	153	391	.904 ⁸
	(0 1 41 ())																							

a. Measures of Sampling Adequacy(MSA)

		Tot	al Variance Exp	plained for H	IRP Step 2				
Component	Initial Total	Eigenvalues % of Variance	Cumulative %	Total	Loadings % of Variance	Cumulativ e %	Total	Loadings % of Variance	Cumulativ e %
1	8.290	36.042	36.042	8.290	36.042	36.042	4.251	18.484	18.484
2	1.886	8.201	44.243	1.886	8.201	44.243	3.847	16.725	35.209
3	1.346	5.852	50.095	1.346	5.852	50.095	3.424	14.887	50.095
4	1.187	5.159	55.254						
5	1.034	4.495	59.749						
6	.975	4.239	63.988						
7	.900	3.912	67.900						
8	.874	3.798	71.698						
9	.740	3.219	74.917						
10	.663	2.884	77.801						
11	.598	2.598	80.399						
12	.595	2.587	82.987						
13	.577	2.508	85.494						
14	.488	2.124	87.618						
15	.427	1.857	89.475						
16	.426	1.853	91.328						
17	.401	1.743	93.071						
18	.352	1.533	94.604						
19	.311	1.353	95.957						
20	.277	1.204	97.161						
21	.241	1.050	98.211						
22	.226	.983	99.194						
23	.185	.806	100.000						
Extraction Metho	d: Principal Componer	nt Analysis.							

As there is still an 'a-square' which is below 0.50, another factor analysis will be conducted.

Factor Analysis of Human Resource Practices- STEP 3

KMO and Bartlett's Test									
Kaiser-Meyer-Olkin Measure of .895									
Sampling Adeq	uacy.								
Bartlett's Test	Approx. Chi-Square	2648.691							
of Sphericity df 23									
	Sig.	0.000							

	Anti-image Matrices for HRP Step 3																						
		HRP36	HRP37	HRP38	HRP39	HRP40	HRP41	HRP42	HRP43	HRP44	HRP46	HRP47	HRP50	HRP51	HRP52	HRP53	HRP55	HRP56	HRP57	HRP58	HRP59	HRP60	HRP61
Anti-image	HRP36	.597	.010	046	142	086	030	040	.052	038	.125	118	.024	028	.034	033	.041	056	054	.024	076	.008	002
Covariance	HRP37	.010	.839	.002	009	.068	.089	026	.050	.054	111	015	.007	020	.037	.047	.012	049	.067	.036	017	.077	086
	HRP38	046	.002	.660	107	.048	079	.066	039	.094	007	021	139	.027	.048	080	045	024	.080	024	.048	040	038
	HRP39	142	009	107	.482	004	003	016	130	087	009	.006	.040	.025	.000	.065	055	074	028	058	.028	025	.026
	HRP40	086	.068	.048	004	.592	087	056	059	.013	061	078	041	.015	.050	.049	099	028	.022	065	.066	047	.056
	HRP41	030	.089	079	003	087	.533	.014	008	041	113	033	.013	002	063	.074	.050	.008	.028	050	111	.053	066
	HRP42	040	026	.066	016	056	.014	.606	099	049	.042	105	046	.006	.032	.012	103	.026	056	.014	047	052	.019
	HRP43	.052	.050	039	130	059	008	099	.499	.017	.024	057	031	.060	033	031	003	068	004	012	002	.018	062
	HRP44	038	.054	.094	087	.013	041	049	.017	.528	174	.010	060	009	.003	060	033	.023	.011	.051	.038	.019	077
	HRP46	.125	111	007	009	061	113	.042	.024	174	.377	106	.046	.005	.012	057	071	.000	122	035	.046	038	.013
	HRP47	118	015	021	.006	078	033	105	057	.010	106	.524	.020	009	025	085	.028	024	002	004	031	.057	.029
	HRP50	.024	.007	139	.040	041	.013	046	031	060	.046	.020	.377	158	077	.065	010	062	045	026	017	.060	047
	HRP51	028	020	.027	.025	.015	002	.006	.060	009	.005	009	158	.390	153	032	.023	.024	.037	014	072	027	.006
	HRP52	.034	.037	.048	.000	.050	063	.032	033	.003	.012	025	077	153	.336	026	090	045	021	.000	.114	133	.039
	HRP53	033	.047	080	.065	.049	.074	.012	031	060	057	085	.065	032	026	.547	.005	076	050	081	.004	081	.021
	HRP55	.041	.012	045	055	099	.050	103	003	033	071	.028	010	.023	090	.005	.536	.001	.020	025	135	.064	038
	HRP56	056	049	024	074	028	.008	.026	068	.023	.000	024	062	.024	045	076	.001	.432	097	004	085	.010	.003
	HRP57	054	.067	.080	028	.022	.028	056	004	.011	122	002	045	.037	021	050	.020	097	.479	012	009	011	067
	HRP58	.024	.036	024	058	065	050	.014	012	.051	035	004	026	014	.000	081	025	004	012	.463	084	041	058
	HRP59	076	017	.048	.028	.066	111	047	002	.038	.046	031	017	072	.114	.004	135	085	009	084	.475	050	068
	HRP60	.008	.077	040	025	047	.053	052	.018	.019	038	.057	.060	027	133	081	.064	.010	011	041	050	.395	160
	HRP61	002	086	038	.026	.056	066	.019	062	077	.013	.029	047	.006	.039	.021	038	.003	067	058	068	160	.425
Anti-image	HRP36	.849 ^a	.014	073	265	145	054	066	.095	067	.263	212	.050	057	.075	057	.072	111	100	.045	142	.017	005
Correlation	HRP37	.014	.762 ^a	.002	014	.097	.133	036	.077	.081	197	022	.013	035	.069	.069	.019	081	.106	.058	028	.134	144
	HRP38	073	.002	.856ª	189	.077	133	.104	068	.158	014	036	279	.053	.102	134	075	045	.142	043	.086	078	073
	HRP39	265	014	189	907 ^a	008	006	029	265	172	021	.012	.095	.058	001	.127	107	161	059	122	.059	057	.058
	HRP40	145	.097	.077	008	.905 ^a	155	093	109	.024	129	140	087	.032	.113	.086	176	055	.042	124	.124	098	.113
	HRP41	054	.133	133	006	155	909 ^a	.025	015	078	252	062	.029	004	149	.138	.094	.017	.056	101	221	.115	138
	HRP42	066	036	.104	029	093	.025	.924 ^a	180	086	.088	187	096	.013	.071	.020	181	.051	103	.027	088	107	.037
	HRP43	.095	.077	068	265	109	015	180	933 ^a	.034	.056	112	071	.136	081	059	006	146	009	026	004	.041	135
	HRP44	067	.081	.158	172	.024	078	086	.034	884 ^a	390	.019	134	019	.008	112	062	.049	.021	.103	.076	.041	162
	HRP46	.263	197	014	021	129	252	.088	.056	390	.827ª	239	.122	.014	.035	126	157	001	286	085	.109	098	.033
	HRP47	212	022	036	.012	140	062	187	112	.019	239	921 ^a	.044	020	060	159	.053	050	004	008	063	.125	.061
	HRP50	.050	.013	279	.095	087	.029	096	071	134	.122	.044	866ª	412	215	.143	023	153	106	063	041	.154	117
	HRP51	057	035	.053	.058	.032	004	.013	.136	019	.014	020	412	833 ^a	423	069	.051	.058	.085	033	168	069	.014
	HRP52	.075	.069	.102	001	.113	149	.071	081	.008	.035	060	215	423	830 ^a	060	213	118	051	.001	.285	364	.104
	HRP53	057	.069	134	.127	.086	.138	.020	- 059	- 112	- 126	- 159	.143	069	060	913 ⁸	.009	- 157	098	- 161	.008	- 174	.044
	HRP55	.072	.019	075	107	176	.094	181	006	062	157	.053	023	.051	213	.009	914 ^a	.003	.040	051	268	.140	079
	HRP56	111	081	045	161	055	.017	.051	146	.049	001	050	153	.058	118	157	.003	945 ^a	213	008	187	.025	.007
	HRP57	100	.106	.142	059	.042	.056	103	009	.021	- 286	004	- 106	.085	051	098	.040	213	033 ⁸	026	018	026	148
	HRP58	.045	.058	043	122	124	101	.027	026	.103	085	008	063	033	.001	161	051	008	026	9608	179	096	131
	HRP59	142	028	.086	.059	.124	- 221	088	004	.076	.109	063	041	168	.285	.008	- 268	187	018	179	8038	115	152
	HRP60	.017	.134	078	057	098	.115	-,107	.041	.041	098	.125	.154	069	-,364	174	.140	.025	026	096	-,115	8718	-,392
	HRP61	005	144	073	.058	.113	- 138	.037	135	- 162	.033	.061	117	.014	.104	.044	079	.007	- 148	131	- 152	392	9048
a. Measures o	f Sampling Adequacy(N	.500 (SA)			.000		.100				.000			.514					+0			.002	.304

		Tot	al Variance Exp	plained for H	IRP Step 3				
	Initial	Eigenvalues			Loadings	1		Loadings	
		% of			% of	Cumulativ		% of	Cumulativ
Component	Total	Variance	Cumulative %	Total	Variance	e %	Total	Variance	e %
1	8.288	37.673	37.673	8.288	37.673	37.673	4.063	18.466	18.466
2	1.855	8.433	46.106	1.855	8.433	46.106	3.817	17.348	35.814
3	1.346	6.116	52.223	1.346	6.116	52.223	3.610	16.409	52.223
4	1.050	4.771	56.993						
5	.975	4.432	61.425						
6	.901	4.096	65.521						
7	.880	4.001	69.522						
8	.792	3.601	73.123						
9	.710	3.227	76.350						
10	.610	2.772	79.122						
11	.597	2.711	81.833						
12	.579	2.631	84.464						
13	.507	2.306	86.771						
14	.457	2.079	88.850						
15	.427	1.941	90.791						
16	.401	1.823	92.613						
17	.362	1.645	94.258						
18	.322	1.465	95.723						
19	.280	1.272	96.995						
20	.247	1.124	98.118						
21	.227	1.031	99.149						
22	.187	.851	100.000						
Extraction Metho	od: Principal Componer	nt Analysis.	•						

STEP 4 - IDENTIFYING ITEMS IN FACTORS

KMO and Bartlett's Test										
Kaiser-Meyer-Olkin Measure of .895										
Sampling Adequ	ласу.									
Bartlett's Test	Approx. Chi-Square	2648.691								
of Sphericity	df	231								
	Sig.	0.000								

									Anti-	image Matr	ices HRP St	ep 4											
		HRP36	HRP37	HRP38	HRP39	HRP40	HRP41	HRP42	HRP43	HRP44	HRP46	HRP47	HRP50	HRP51	HRP52	HRP53	HRP55	HRP56	HRP57	HRP58	HRP59	HRP60	HRP61
Anti-image	HRP36	.597	.010	046	142	086	030	040	.052	038	.125	118	.024	028	.034	033	.041	056	054	.024	076	.008	002
Covariance	HRP37	.010	.839	.002	009	.068	.089	026	.050	.054	111	015	.007	020	.037	.047	.012	049	.067	.036	017	.077	086
	HRP38	046	.002	.660	107	.048	079	.066	039	.094	007	021	139	.027	.048	080	045	024	.080	024	.048	040	038
	HRP39	142	009	107	.482	004	003	016	130	087	009	.006	.040	.025	.000	.065	055	074	028	058	.028	025	.026
	HRP40	086	.068	.048	004	.592	087	056	059	.013	061	078	041	.015	.050	.049	099	028	.022	065	.066	047	.056
	HRP41	030	.089	079	003	087	.533	.014	008	041	113	033	.013	002	063	.074	.050	.008	.028	050	111	.053	066
	HRP42	040	026	.066	016	056	.014	.606	099	049	.042	105	046	.006	.032	.012	103	.026	056	.014	047	052	.019
	HRP43	.052	.050	039	130	059	008	099	.499	.017	.024	057	031	.060	033	031	003	068	004	012	002	.018	062
	HRP44	038	.054	.094	087	.013	041	049	.017	.528	174	.010	060	009	.003	060	033	.023	.011	.051	.038	.019	077
	HRP46	.125	111	007	009	061	113	.042	.024	174	.377	106	.046	.005	.012	057	071	.000	122	035	.046	038	.013
	HRP47	118	015	021	.006	078	033	105	057	.010	106	.524	.020	009	025	085	.028	024	002	004	031	.057	.029
	HRP50	.024	.007	139	.040	041	.013	046	031	060	.046	.020	.377	158	077	.065	010	062	045	026	017	.060	047
	HRP51	028	020	.027	.025	.015	002	.006	.060	009	.005	009	158	.390	153	032	.023	.024	.037	014	072	027	.006
	HRP52	.034	.037	.048	.000	.050	063	.032	033	.003	.012	025	077	153	.336	026	090	045	021	.000	.114	133	.039
	HRP53	033	.047	080	.065	.049	.074	.012	031	060	057	085	.065	032	026	.547	.005	076	050	081	.004	081	.021
	HRP55	.041	.012	045	055	099	.050	103	003	033	071	.028	010	.023	090	.005	.536	.001	.020	025	135	.064	038
	HRP56	056	049	024	074	028	.008	.026	068	.023	.000	024	062	.024	045	076	.001	.432	097	004	085	.010	.003
	HRP57	054	.067	.080	028	.022	.028	056	004	.011	122	002	045	.037	021	050	.020	097	.479	012	009	011	067
	HRP58	.024	.036	024	058	065	050	.014	012	.051	035	004	026	014	.000	081	025	004	012	.463	084	041	058
	HRP59	076	017	.048	.028	.066	111	047	002	.038	.046	031	017	072	.114	.004	135	085	009	084	.475	050	068
	HRP60	.008	.077	040	025	047	.053	052	.018	.019	038	.057	.060	027	133	081	.064	.010	011	041	050	.395	160
	HRP61	002	086	038	.026	.056	066	.019	062	077	.013	.029	047	.006	.039	.021	038	.003	067	058	068	160	.425
Anti-image Correlation	HRP36	.849 ^ª	.014	073	265	145	054	066	.095	067	.263	212	.050	057	.075	057	.072	111	100	.045	142	.017	005
Conciduon	HRP37	.014	.762*	.002	014	.097	.133	036	.077	.081	197	022	.013	035	.069	.069	.019	081	.106	.058	028	.134	144
	HRP38	073	.002	.856"	189	.077	133	.104	068	.158	014	036	279	.053	.102	134	075	045	.142	043	.086	078	073
	HRP39	265	014	189	.907ª	008	006	029	265	172	021	.012	.095	.058	001	.127	107	161	059	122	.059	057	.058
	HRP40	145	.097	.077	008	.905°	155	093	109	.024	129	140	087	.032	.113	.086	176	055	.042	124	.124	098	.113
	HRP41	054	.133	133	006	155	.909"	.025	015	078	252	062	.029	004	149	.138	.094	.017	.056	101	221	.115	138
	HRP42	066	036	.104	029	093	.025	.924°	180	086	.088	187	096	.013	.071	.020	181	.051	103	.027	088	107	.037
	HRP43	.095	.077	068	265	109	015	180	.933*	.034	.056	112	071	.136	081	059	006	146	009	026	004	.041	135
	HRP44	067	.081	.158	172	.024	078	086	.034	.884"	390	.019	134	019	.008	112	062	.049	.021	.103	.076	.041	162
		.203	197	014	021	129	252	.088	.056	390	.827*	239	.122	.014	.035	126	157	001	286	085	.109	098	.033
		212	022	030	.012	140	062	107	112	.019	239	.921-	.044	020	060	159	.053	050	004	008	063	.120	.001
		.050	.013	279	.095	007	.029	096	071	134	.122	.044	.866-	412	215	.143	023	153	106	063	041	.154	117
		037	035	.000	.058	.032	004	.013	.130	019	.014	020	412	.833-	423	009	.001	.038	.065	033	100	009	.014
	HRF52	- 057	.009	- 134	001	.113	149	.071	061	.000	.035	000	213	423	.830	000	213	110	031	.001	.205	304	.104
	HRP55	037	.003	134	- 107	.000	.150	.020	005	112	120	153	- 023	003	000	.913	.003	137	030	101	.000	174	- 079
	HPD56	.072	.019	075	107	170	.094	101	000	002	157	.053	023	.051	213	.009	.914	.003	.040	001	200	.140	079
	HPD57	111	001	043	101	033	.017	- 103	140	.043	001	000	106	.000	110	137	.005	.945	213	000	107	- 026	- 148
	HPD58	100	.100	.142	059	.042	.000	103	009	1021	200	004	100	.000	051	090	.040	213	.933"	020	010	020	140
	HRP59	.045	000. 000 -	043	122	124	101	.027	020	.103	005	000	003	033	.001 285	101	001	000	020	.960	179	090	131
	HPP60	142	020	.000	.059	- 009	221	000	004	.070	- 009	003	041	100	.205	.000	200	107	010	179	.869"	113	- 302
	HPD61	.017	.134	070	057	090	.115	107	.041	.041	090	.125	.104	069	304	174	- 070	.025	020	090	110	.8/1-	392
a Maggures a		005	144	073	.058	.113	138	.037	135	162	.033	.061	117	.014	.104	.044	079	.007	148	131	152	392	.904"
a. measures 0	amping Auequacy(IVI	onj																					

		Tot	al Variance Exp	plained for H	IRP Step 4				
	Initial	Eigenvalues			Loadings			Loadings	
		% of			% of	Cumulativ		% of	Cumulativ
Component	Total	Variance	Cumulative %	Total	Variance	e %	Total	Variance	e %
1	8.288	37.673	37.673	8.288	37.673	37.673	4.063	18.466	18.466
2	1.855	8.433	46.106	1.855	8.433	46.106	3.817	17.348	35.814
3	1.346	6.116	52.223	1.346	6.116	52.223	3.610	16.409	52.223
4	1.050	4.771	56.993						
5	.975	4.432	61.425						
6	.901	4.096	65.521						
7	.880	4.001	69.522						
8	.792	3.601	73.123						
9	.710	3.227	76.350						
10	.610	2.772	79.122						
11	.597	2.711	81.833						
12	.579	2.631	84.464						
13	.507	2.306	86.771						
14	.457	2.079	88.850						
15	.427	1.941	90.791						
16	.401	1.823	92.613						
17	.362	1.645	94.258						
18	.322	1.465	95.723						
19	.280	1.272	96.995						
20	.247	1.124	98.118						
21	.227	1.031	99.149						
22	.187	.851	100.000						
Extraction Metho	d: Principal Componer	nt Analysis.	4						

Human Resaource Practices - Rotated Component Matrix ^a										
Component										
	1	2	3							
HRP36	.738									
HRP39	.684									
HRP43	.631									
HRP56	.587									
HRP59	.562									
HRP42	.544									
HRP47	.521									
HRP40	.514									
HRP38										
HRP55										
HRP51		.838								
HRP52		.803								
HRP50		.763								
HRP60		.646								
HRP61		.521								
HRP58										
HRP37										
HRP46			.884							
HRP44			.739							
HRP57			.572							
HRP53			.505							
HRP41										
Extraction Metho Rotation Method	d: Principal Componer d: Varimax with Kaiser	nt Analysis. Normalization.								
a. Rotation conv	erged in 6 iterations.									

3.3 FACTOR ANALYSIS FOR HIGH PERFORMANCE WORK SYSTEMS

KMO and Bartlett's Test										
Kaiser-Meyer-Olkin Measure of .746										
Sampling Adequ	lacy.									
Bartlett's Test	Approx. Chi-Square	1087.285								
of Sphericity	df	78								
	Sig.	.000								

	Anti-image Matrices for HPWS													
		HPWS23	HPWS24	HPWS25	HPWS26	HPWS27	HPWS28	HPWS29	HPWS30	HPWS31	HPWS32	HPWS33	HPWS34	HPWS35
Anti-image	HPWS23	.645	126	094	.013	259	.011	063	.015	.066	113	.034	.043	008
Covariance	HPWS24	126	.637	135	074	.068	032	109	034	045	.013	030	081	008
	HPWS25	094	135	.621	045	.093	043	.117	022	189	003	.033	077	068
	HPWS26	.013	074	045	.823	138	034	.053	.018	.061	018	159	.051	084
	HPWS27	259	.068	.093	138	.544	.027	017	065	114	.117	052	135	009
	HPWS28	.011	032	043	034	.027	.658	087	242	030	.127	.021	.017	.036
	HPWS29	063	109	.117	.053	017	087	.679	.045	007	012	148	118	063
	HPWS30	.015	034	022	.018	065	242	.045	.458	042	.016	079	104	115
	HPWS31	.066	045	189	.061	114	030	007	042	.578	220	022	.092	051
	HPWS32	113	.013	003	018	.117	.127	012	.016	220	.463	222	113	.063
	HPWS33	.034	030	.033	159	052	.021	148	079	022	222	.569	.050	.079
	HPWS34	.043	081	077	.051	135	.017	118	104	.092	113	.050	.409	167
	HPWS35	008	008	068	084	009	.036	063	115	051	.063	.079	167	.514
Anti-image	HPWS23	.728 ^a	197	148	.017	437	.017	095	.028	.107	207	.056	.084	014
Correlation	HPWS24	197	.871 ^a	215	102	.116	050	165	064	073	.024	049	159	015
	HPWS25	148	215	.774 ^a	064	.159	068	.180	041	315	005	.056	152	120
	HPWS26	.017	102	064	.719 ^a	207	046	.071	.030	.088	029	232	.088	129
	HPWS27	437	.116	.159	207	.694 ^a	.045	029	129	203	.232	093	287	017
	HPWS28	.017	050	068	046	.045	.671 ^a	130	441	048	.230	.034	.032	.062
	HPWS29	095	165	.180	.071	029	130	.797 ^a	.080	012	021	238	224	106
	HPWS30	.028	064	041	.030	129	441	.080	.805 ^a	081	.034	155	240	236
	HPWS31	.107	073	315	.088	203	048	012	081	.697 ^a	425	039	.190	093
	HPWS32	207	.024	005	029	.232	.230	021	.034	425	.598 ^a	432	259	.130
	HPWS33	.056	049	.056	232	093	.034	238	155	039	432	.673 ^a	.103	.146
	HPWS34	.084	159	152	.088	287	.032	224	240	.190	259	.103	.773 ^a	364
	HPWS35	014	015	120	129	017	.062	106	236	093	.130	.146	364	.825 ^a

a. Measures of Sampling Adequacy(MSA)

Total Variance Explained for HPWS										
	Init	ial Eigenvalues		Loadings						
			Cumulativ		% of	Cumulative				
Component	Total	% of Variance	e %	Total	Variance	%				
1	4.147	31.897	31.897	4.147	31.897	31.897				
2	1.849	14.225	46.122							
3	1.192	9.166	55.288							
4	.983	7.560	62.847							
5	.960	7.387	70.234							
6	.775	5.962	76.196							
7	.763	5.867	82.064							
8	.529	4.066	86.129							
9	.470	3.615	89.744							
10	.418	3.218	92.962							
11	.382	2.938	95.900							
12	.308	2.365	98.265							
13	.226	1.735	100.000							
Extraction Method:	Principal Compor	nent Analysis.	<u>.</u>							

Factor Analysis (after Facor Loading Procedure)- High Performance Work Systems

K	KMO and Bartlett's Test										
Kaiser-Meyer-Olkin Measure of .750 Sampling Adequacy.											
Bartlett's Test	Approx. Chi-Square	933.797									
of Sphericity	df	55									
	Sig.	.000									

	Anti-image Matrices for HPWS after Factor Loading Procedure												
		HPWS23	HPWS24	HPWS25	HPWS27	HPWS29	HPWS30	HPWS31	HPWS32	HPWS33	HPWS34	HPWS35	
Anti-image	HPWS23	.645	126	093	269	064	.024	.066	122	.038	.042	008	
Covariance	HPWS24	126	.645	145	.060	112	057	042	.020	046	077	015	
	HPWS25	093	145	.627	.091	.118	047	191	.005	.027	074	072	
	HPWS27	269	.060	.091	.570	006	070	109	.121	087	134	026	
	HPWS29	064	112	.118	006	.694	.016	015	.006	147	123	055	
	HPWS30	.024	057	047	070	.016	.569	066	.082	092	123	128	
	HPWS31	.066	042	191	109	015	066	.584	228	011	.091	045	
	HPWS32	122	.020	.005	.121	.006	.082	228	.489	254	123	.060	
	HPWS33	.038	046	.027	087	147	092	011	254	.602	.063	.067	
	HPWS34	.042	077	074	134	123	123	.091	123	.063	.413	167	
	HPWS35	008	015	072	026	055	128	045	.060	.067	167	.525	
Anti-image	HPWS23	.714 ^a	195	146	444	096	.039	.107	217	.062	.082	013	
Correlation	HPWS24	195	.866 ^a	228	.100	168	095	068	.035	074	149	025	
	HPWS25	146	228	.765 ^a	.153	.178	079	315	.010	.044	146	126	
	HPWS27	444	.100	.153	.693 ^a	010	123	189	.229	149	277	047	
	HPWS29	096	168	.178	010	.816 ^a	.025	024	.010	227	229	092	
	HPWS30	.039	095	079	123	.025	.852 ^a	115	.156	158	254	234	
	HPWS31	.107	068	315	189	024	115	.700 ^a	426	018	.185	081	
	HPWS32	217	.035	.010	.229	.010	.156	426	.578 ^a	469	274	.118	
	HPWS33	.062	074	.044	149	227	158	018	469	.655 ^a	.127	.120	
	HPWS34	.082	149	146	277	229	254	.185	274	.127	.766 ^a	360	
	HPWS35	013	025	126	047	092	234	081	.118	.120	360	.833 ^a	
a. Measures c	of Sampling Adequac	y(MSA)		•	•					•	•		

Т	Total Variance Explained for HPWS After Factor Loading Procedure											
	Initial I	Eigenvalues		Loadings								
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulativ e %						
1	3.931	35.735	35.735	3.931	35.735	35.735						
2	1.664	15.131	50.866									
3	1.152	10.471	61.337									
4	.904	8.217	69.554									
5	.776	7.053	76.607									
6	.577	5.247	81.854									
7	.525	4.776	86.631									
8	.446	4.057	90.687									
9	.411	3.735	94.423									
10	.385	3.497	97.919									
11	.229	2.081	100.000									
Extraction Method	: Principal Componen	t Analysis.				•						

4 MISSING VALUE ANALYSIS

		Univ	ariate Statistics	5			
				Mis	sing	No. of Ex	dremes ^a
<u> </u>	N	Mean	Std. Deviation	Count	Percent	Low	High
OC1	261	5.1226	.65067	0	0.0	5	0
OC2	261	5.5632	.52699	0	0.0	0	0
OC3	261	4.8391	.42626	0	0.0		
OC4	261	4.8889	.48745	0	0.0		
OC5	261	5.5900	.53036	0	0.0	0	0
0C6	261	4.7471	.47762	0	0.0	0	0
0C7	261	5.2874	.70013	0	0.0	7	0
0C8	261	5.5977	.55038	0	0.0	0	0
DC9	261	3.0230	.74385	0	0.0		
DC10	261	5.6207	.56653	0	0.0	0	0
DC11	261	6.0192	.47598	0	0.0		
DC12	261	5.0920	.70654	0	0.0		
DC13	261	2.5939	.67068	0	0.0	0	4
DC14	261	6.0268	.50692	0	0.0		
)C15	261	3.1609	.76269	0	0.0		
)C16	261	5.9502	.48971	0	0.0		
DC17	261	5.9885	.47623	0	0.0		
IPWS18	261	5.4291	.54751	0	0.0	0	0
IPWS19	261	4.9042	.41420	0	0.0		
IPWS20	261	5.1111	.61324	0	0.0		
IPWS21	261	5.9770	.38161	0	0.0		
IPWS22	261	5.4330	.55497	0	0.0	0	0
IPWS23	261	3.7816	1.13773	0	0.0	0	0
IPWS24	261	5.5402	.57789	0	0.0	0	0
IPWS25	261	4.7280	.67848	0	0.0	5	0
IPWS26	261	5.8046	.45164	0	0.0		
IPWS27	261	5.9387	.48445	0	0.0		
IPWS28	261	5.9655	.45017	0	0.0		
IPWS29	261	4.9770	.47175	0	0.0		
IPWS30	261	4.9502	.47374	0	0.0		
IRP31	261	5.5096	.57921	0	0.0	1	0
IRP32	261	4.9579	.46631	0	0.0		
IRP33	261	5.5326	.57168	0	0.0	0	0
IRP34	261	5.3027	.59836	0	0.0	0	0
IRP35	261	5.4444	.57661	0	0.0	0	0
IRP36	261	5.7433	.51066	0	0.0		
HRP37	261	4.3487	.84869	0	0.0	8	0
IRP38	261	5.2299	.63308	0	0.0	4	0
IRP39	261	4.7816	.57026	0	0.0		
HRP40	261	5.9195	.43549	0	0.0		
IRP41	261	4.7778	.50043	0	0.0		
IRP42	261	4.2912	.65595	0	0.0	4	0
HRP43	261	6.0881	.43400	0	0.0		
IRP44	261	6.1418	.44616	0	0.0		
IRP45	261	3.9004	.55957	0	0.0		
IRP46	261	3.6973	.54451	0	0.0	0	0
IRP47	261	3.7701	.54845	0	0.0		
IRP48	261	4.7816	.58360	0	0.0		
IRP49	261	5.9655	.39560	0	0.0		
IRP50	261	4.8774	.48863	0	0.0		
HRP51	261	5.4061	.64136	0	0.0	2	0
IRP52	261	5.1073	.65924	0	0.0	6	0
IRP53	261	5.5517	.62804	0	0.0	2	0
HRP54	261	5.4368	.64512	0	0.0	3	0
HRP55	261	4.7701	.57582	0	0.0		
HRP56	261	5.6360	.58972	0	0.0	0	0
a. Number of ca	ses outside the range	(Q1 - 1.5*IQR,	Q3 + 1.5*IQR).		(I		

b. . indicates that the inter-quartile range (IQR) is zero.

CORRELATION ANALYSIS

			Correlation	าร				
		OC_1	OC_2	OC_3	hrp_1	hrp_2	hrp_3	hpws
OC_1	Pearson Correlation	1	225 ^{**}	.501**	.562**	.381**	.580**	.523
	Sig. (2-tailed)		.000	.000	.000	.000	.000	.000
	Ν	261	261	261	261	261	261	261
OC_2	Pearson Correlation	225**	1	208**	366**	308**	332**	219
	Sig. (2-tailed)	.000		.001	.000	.000	.000	.000
	Ν	261	261	261	261	261	261	261
OC_3	Pearson Correlation	.501**	208**	1	.460**	.504**	.424**	.558
	Sig. (2-tailed)	.000	.001		.000	.000	.000	.000
	Ν	261	261	261	261	261	261	261
hrp_1	Pearson Correlation	.562**	366**	.460**	1	.528**	.632**	.663
hrp_1	Sig. (2-tailed)	.000	.000	.000		.000	.000	.000
	Ν	261	261	261	261	261	261	261
hrp_2	Pearson Correlation	.381**	308**	.504**	.528**	1	.564**	.583
	Sig. (2-tailed)	.000	.000	.000	.000		.000	.000
	Ν	261	261	261	261	261	261	261
hrp_3	Pearson Correlation	.580**	332 ^{**}	.424**	.632**	.564**	1	.588
	Sig. (2-tailed)	.000	.000	.000	.000	.000		.000
	Ν	261	261	261	261	261	261	261
hpws	Pearson Correlation	.523**	219**	.558**	.663**	.583**	.588**	1
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	
	Ν	261	261	261	261	261	261	261

6 TEST OF NORMALITY

Tests of Normality											
	Kolmog	orov-Smirnov ^a	ç	Shapiro-Wilk	ζ						
	Statistic	df	Sig.	Statistic	df	Sig.					
OC_1	.192	261	.000	.876	261	.000					
OC_2	.289	261	.000	.844	261	.000					
OC_3	.222	261	.000	.888	261	.000					
hrp_1	.105	261	.000	.933	261	.000					
hrp_2	.238	261	.000	.726	261	.000					
hrp_3	.253	261	.000	.854	261	.000					
hpws	.214	261	.000	.709	261	.000					
a. Lilliefors Signi	a. Lilliefors Significance Correction										

7 REGRESSION ANALYSIS

7.1 REGRESSION ANALYSIS BETWEEN OVERALL ORGANIZATIONAL CLIMATE AND HIGH PERFORMANCE WORK SYSTEMS

Model Summary ^b												
	Std. Error Change Statistics											
			Adjusted	of the	R Square				Sig. F	Durbin-		
Model	R	R Square	R Square	Estimate	Change	F Change	df1	df2	Change	Watson		
1	.501 ^a	.251	.248	.26773	.251	86.965	1	259	.000	2.033		
a. Predictors: (Constant), oc_overall												
b. Dependent Variable: hpws												

7.2 REGRESSION ANALYSIS BETWEEN OVERALL HUMAN RESOURCE PRACTICES AND HIGH PERFORMANCE WORK SYSTEMS

Model Summary ^b												
				Std. Error		Cha	ange Statist	ics				
			Adjusted	of the	R Square				Sig. F	Durbin-		
Model	R	R Square	R Square	Estimate	Change	F Change	df1	df2	Change	Watson		
1	.723 ^a	.522	.520	.21392	.522	282.909	1	259	.000	2.067		
a. Predictors: (Constant), hrp_overall												
b. Dependent Variable: hpws												

7.3 REGRESSION ANALYSIS BETWEEN TRAINING AND DEVELOPMENT AND HIGH PERFORMANCE WORK SYSTEMS

Model Summary ^b											
				Std. Error		Cha	ange Statis	tics			
			Adjusted	of the	R Square				Sig. F	Durbin-	
Model	R	R Square	R Square	Estimate	Change	F Change	df1	df2	Change	Watson	
1	.607 ^a	.369	.366	.24587	.369	151.213	1	259	.000	2.068	
a. Predictors: (Constant), Training_n_development											
b. Dependent Variable: hpws											

7.4 REGRESSION ANALYSIS BETWEEN COMPENSATION AND BENEFITS AND HIGH PERFORMANCE WORK SYSTEMS

Model Summary ^b												
	Std. Error Change Statistics											
			Adjusted	of the	R Square				Sig. F	Durbin-		
Model	R	R Square	R Square	Estimate	Change	F Change	df1	df2	Change	Watson		
1	.608 ^a	.370	.367	.24565	.370	151.957	1	259	.000	1.777		
a. Predictors: (Constant), Com_n_ben												
b. Dependent Variable: hpws												