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An exploratory study of Occupational Stress Index of Non-Governmental Workplace during Covid-19 virus in Erbil, Kurdistan region.

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Abstract

Occupational stress can be defined as the variation of an individual's mental and / or physical state in response to occurrences at their workplace. Occupational stress can happen when there is an inconsistency between the physiological and mental demands within an organization and the inability of the employees to successfully handle and/or cope with the requested work demands. This research is a quantitative study and was conducted during the period of COVID-19 spread across the world and specifically in Kurdistan region. The samples were taken from two different non-governmental-organizations, SWEDOaid, previously known as QANDIL and Human Appeal both based in Erbil, Iraq. A web-based survey was created based on the Occupational Stress Index (OSI) and was distributed of the surveys collected, all 128 were reliable sources of information since all the questions were mandatory for completion. The results show that the level of occupational stress among the employees was moderate and there was not difference between genders of the study in terms of perceiving the stress and the number of factors in the scale can be reduced to nine factors according to the current sample of the study.

Keywords: Occupational Stress Index, Non-governmental organizations, NGO, Kurdistan, Stress Level.

1. Introduction

The primary aim of this study was to analyse the level of occupational stress experienced by employees and to identify the main sources of occupational stress among the 12 sub-dimensions of Occupational stress, and finally to assess if there are significant difference between males and females in terms of levels of perceiving occupational stress. Moreover, to assess the possibility of factor reduction using Principal Component Analysis. Non-for-profit humanitarian organizations in Erbil, Iraq An important aspect of our lives is directly dependent on our health and wellbeing. When an individual is exposed to feeling of pressure or tension which is placed on the individual by other people, certain incidents or particular events; a person needs to attempt to cope, adapt and adjust to these pressures, (Niosh, 1998). According to the Merriam-Webster Dictionary, "stress can be defined as a physical, chemical, or emotional factor that causes bodily or mental tension and may be a factor in disease causation". (Merriam-Webster, 2020). Hans Seyle, one of the founding fathers in stress

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research introduced the word 'stress' to define both psychological and physical responses to rigorous situations or stimuli. The word stress itself an engineering term; is used to describe the responses of an object to a force that when applied, causes some sort of deformation. (Seyle, 1946) Seyle proposed that stress is not necessarily a negative occurrence, but it depends on how an individual takes on the stress. When stress results into successful, creative and exciting work it is beneficial, however when it causes humiliation or failure it is damaging to the individual. Thus, stress can be classified into two types:

a) Eustress: Constructive, pleasant or beneficial stress

b) Distress: Dysfunctional or undesirable stress

Occupational stress has become an increasing in the modern world since not only does it affect an employee's physiological, behavioural and physical health. When employees are weighed down with excessive loads of work and long hours of work, this may result in employees not being able to perform to the best of their abilities and thus negatively influences an employee's efficiency, performance, error rates and work quality and also is a factor that is associated with high staff turnover and absenteeism hence not only affecting the employee but also the company/organization (Antonova, 2016). If an organization can effectively manage the stress placed on employees, it can be a source of stimulation and induction of growth and improved performance in the workplace, this results in goals being accomplish which in turn be a source of positive morale for staff. (Lewig, et al., 2003). It is crucial to distinguish between three terms: stress, stressors and strain. Stress is identified as an individual's response a stressor. stressors are the external events in the workplace such as difficult relationships at work or too many assignments. Strain is defined as the long term psychological and physiological effects of stress, these may include anxiety, depression, obesity and even suicide (Francis, et al., 2005). Table 1 below discusses the physical, psychological and behavioural symptoms associated with occupational stress.

Table 1.1: Symptoms of occupational stress in employees (Rakshit, et al., 2016: 99) (WHO, 2005:5)

Physiological	Psychological	Behavioural			
 Headaches Chest pain Grinding teeth Clenched jaws Shortness of breath Pounding heart High blood pressure Muscle aches Indigestion Constipation or diarrhoea Increased perspiration Fatigue Insomnia Frequent illness 	 Anxiety Irritability Sadness Defensiveness Anger Mood swings Hypersensitivity Apathy Depression Slowed thinking or racing thoughts Feelings of helplessness, hopelessness, or of being trapped 	 Overeating or loss of appetite Impatience Procrastination Increased use of alcohol / drugs Increased smoking Withdrawal or isolation from others Neglect of responsibility Poor job performance Poor personal hygiene Change in religious practices Changes in close family relationships 			



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2. Literature Review

2.1 Concept of Occupational Stress

Occupational stress is a complex psychological concept and must be initially understood by its parent concept known as stress. According to (Krantz et al., 1985), stress can be described as the change in the physical or mental state of an individual in response to certain circumstances (stressors) that the individual may find to pose a challenge or a threat.

(Colligan, et al., 2006) states that stress can be understood in terms of general psychological reactions that incite confrontational physical or mental health conditions in which an individual's adaptive abilities are strained. Different people experience stress at different levels based on their tolerance levels and what their interpretation of stress. Injustice in organizations lead to frustration and stress, which at their end it affects the relationship between the employee and the organization (Ismail, Sherwani, 2018).

In the fundamental form, stress is divided into two categories, eustress (pleasant stress) and distress (negative stress) (Seyle, 1946). Since stress is a reaction to something, a stressor; which is the external factor causing the stress can be identified as either progressive or damaging. An example of a eustress would be a job promotion, or a new manager in charge. These sorts of situations influence an individual to work productively through possibly challenging situation. Distress, on the other hand is the reaction to stressors that are considered negative. When people think of the word 'stress' they identify it periods of time when they are under unhealthy levels of pressure to complete a task, when a devastating event befalls them, or when they are dealing with the daily, routine stressors that cause general frustration. To understand these two types of stress is to prove that stress can be beneficial and help a person meet goals and ambitions whilst promoting positive productivity. However, if left at a certain amount of intensity and period of time, stress becomes crippling and generally leads to emotional chaos, exhaustion, and physical ailment (Colligan, et al., 2006).

Occupational stress can thus be defined as the variation of an individual's mental and / or physical state in response to occurrences at their workplace, (Fonkeng, 2018). Occupational stress can happen when there is an inconsistency between the physiological and mental demands within an organization and the inability of the employees to successfully handle and/or cope with the requested work demands (Kenny, et al., 2003).

2.2 Types of Stress

To understand the concept of stress better, the concept is categorized into different types; these include acute, episodic, traumatic and chronic. Each type of stress has various emotional, physical and psychological symptoms associated with it (Lazarus, 1991).

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1.2.1 Acute Stress

Acute stress is the most common type of stress. It is frequently short-lived and does not cause any permanent bodily damage. It may be the consequences of a busy day at work, however once an individual ends their day at work, their stress is relieved. Acute stress occurs when the pressure of receiving impractical work demands, unanticipated meetings and other situations may cause frustrations; however, they only last a short period of time (Zimbardo et al., 2003).

1.2.2 Episodic Stress

Episodic stress has symptoms similar to those of acute stress, however episodic stress tends to happen more frequently and on regular basis; episodically. Individual's that experience episodic stress tend to display symptoms of aggressiveness, impatience, and low tolerance (Lazarus, 2000).

1.2.3 Traumatic Stress

As stated in (Fonkeng, 2018), traumatic stress results from a distressing experience or a devastating event such as an accident or a natural disaster. An individual's mind and body may find it difficult it resumes to equilibrium / normal life prior to the incident, and they suffer greatly.

1.2.4 Chronic Stress

Chronic stress is when an individual suffers from long-term exposure to stressors which persist and accumulate over a long period of time, these may include stressors such as job strain, poverty, relationship or family conflict (strained marriage) (Lazarus, 2000). An individual may find these situations to be never ending and the accumulated stress may end up being life-threatening as it destroys an individual emotionally as well wellbeing which may lead to death (MacKay, et al., 2004).

2.3 Causes of Occupational Stress

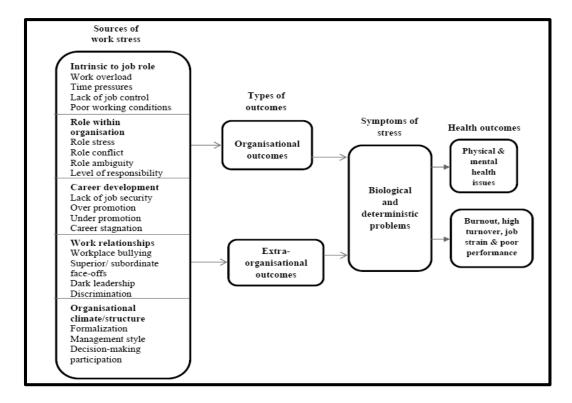
The types of stress mentioned in the previous section set the paradigm through which individuals (employees) and organizations / managers should understand stress. Occupational stress is not only a physiological response to a certain situation. Stress is an interaction between an individual the challenge in their environment (Long, 1995). Many scholars agree with (Arnold, et al., 1991) and (Murphy, 1995) and their identification of the five major sources of stress. These include

- 1. Factors intrinsic to a job
- 2. Role in the organization
- 3. Interpersonal relationships at work
- 4. Career development

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5. Organizational structure and climate

Figure 2.1: A schematic framework of factors associated with work-related stress and outcomes (Rakshit, et al., 2016), (Murphy, 1995), (WHO, 2005)



2.3 Symptoms of Occupational Stress

According to (Murphy, 1995), stress can be shown in various forms which can be divided into three categories: physiological, psychological and behavioural symptoms.

2.4.1 Psychological Symptoms and its Effects

When an employee is threatened by high levels of stress and suffers from poor mental health, the employee may suffer from symptoms such as anxiety, nervousness, irritability, anger, aggressiveness, and inability to concentrate, job dissatisfaction and boredom. The response an individual may have to stress may decrease work ability, effective interaction with colleagues and inability to make good decisions (Gyamfi, et al., 2017).

2.4.2 Behavioural Symptoms and its Effects

(Michie, 2002) states that occupational stress can also present itself as behavioural symptoms; these can be displayed as neglect of nutrition, usage or increase of cigarette smoking, drug and alcohol abuse, fidgeting. It can also be overuse of television, computer or videogames. This may lead to absenteeism from work and performance deterioration.

2.4.3 Physiological Symptoms and its Effects

When an individual is exposed to stress, their body produces hormones that trigger the fight or flight response. These hormones allow humans to run faster or fight harder and increase

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heart rate and blood pressure. When an individual is exposed to stressors, it causes changes in metabolism such as increase in heart rate and blood pressure, etc. when this occurs, the deterioration of the body become obvious and difficult to handle. (Blix, et al, 1994).

2.5 Management of Stress

In organizations and higher education institutions, employers apply performance management systems which in return they except employees to achieve the outcomes and that puts pressure on the employees (Sherwani, 2014). As stated by (Le Ferve, 2003) stress can be managed using stress management interventions (SMIs) which are intentional actions that are prepared and completed to reduce and alleviate occupational stress that is experienced by the employees of an organization during work.

Primary SMIs (stressor reduction) are identified as an organization's best procedures that assist in decreasing, adjusting or eradicating stressful work demands that cause health and performance difficulties. These can be identified as redesigning jobs that remove stress factors, flexibility in working hours, removing environmental annoyances, encouraging autonomy, changing organizational culture that prioritises and ensure employee health and wellness as well as training and development in stress management (Srivastava, 1997).

Secondary SMIs (stress management) are recognized to assist employees in coping with work stress. These could be cases of wellness programmes, organizational social gatherings, providing recreational facilities or activities. Secondary interventions are framed to assist employees to cope with work and can include development of personnel policies such as better welfare packages, pension schemes and incentives (Clarke & Cooper, 2000).

3. Methodology

This research is a quantitative study, since the source of collecting information in depth and comparing the information of a standard questionnaire of the participants over a specific period of time. It is also a cross-sectional study due to the limited time in which it was conducted, cross-sectional studies often utilize a standard survey / questionnaire and are used to compare factors or describe a trend; in this case – occupational stress (Saunders, et al. 2009).

3.1 Subjects

This study was conducted by obtaining permission from two different non-governmental-organizations, SWEDOaid, previously known as QANDIL and Human Appeal both based in Erbil, Iraq. These organizations are high stress environments since they have a large number of employees that work on relief programmes in emergency response and sustainable development. Surveys were distributed and 128 were collected. Of the surveys collected, all 128 were reliable sources of information since all the questions were mandatory for completion.

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3.2 Instrument

The instrument used in this research is Occupational Stress Index – developed by Srivastava and Singh developed in 1984 (Srivastava and Singh, 1984). It has been one of the reliable instruments to measure occupational stress at workplace. The instrument is consists of 46 items, each to be rated on the five-point scale (1 for Strongly Disagree to 5 for Strongly Agree). From the 46 items, 28 items are true-keyed and 18 items are reversed. After the data collections the false-keyed items will have reversed weights. The items are generally about all the aspects of Occupational stress at the workplace. The sub-dimensions of Occupational stress are role over-load, role ambiguity, role conflict, unreasonable group and political pressure, responsibility for persons, under participation, powerlessness, poor peer relations, intrinsic, impoverishment, low status, strenuous working conditions and unprofitability. The validity of the instrument showed 0.935 Cronbach's Alpha, by the developers of the scale, and it found to be suitable to be used in Non-Governmental Organizations as well.

3.3 Procedure

Due to the health crisis situation of COVID-19, the survey was turned into a google form for employees to complete whilst working from home and was evidently found that online forms are superior to hard copy surveys since not only they are more reliable; due to the fact that the collected data is collected together, is more convenient to distribute, but they also are environmentally friendly since no paper is used in the process.

3.4 Data Analysis

The items have been transformed to one variable to form sub-dimensions of Occupational Stress, in order to compare between the sub-dimensions of Occupational index and to identify the sub-dimensions which are the main sources of Occupational stress. The researcher used descriptive analysis, Independent sample t-test to compare one continuous variable between two categorical variables. Moreover, under factor analysis, Principal component Analysis has been used to assess the possibility of reducing the factors of the scale and how many components is suitable to be retained in the current sample of the study.

4. Findings and Interpretation

4.1 Demographics

The demographics of the study was analysed, and it showed that there were in total 125 respondents, 79 male and 46 Female cases. Moreover, the age distribution was as the table below. Majority of the respondents were young and under 29 years old.

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Table 4.1 Descriptive of Demographics

Δae

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 18-23	5	4.0	4.0	4.0
	2 24-29	71	56.8	56.8	60.8
	3 30-25	14	11.2	11.2	72.0
	4 36-41	22	17.6	17.6	89.6
	5 +42	13	10.4	10.4	100.0
	Total	125	100.0	100.0	

4.2 Descriptive analysis of the occupational stress dimensions

Table 4.2 Descriptive of OS dimensions

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation	Skew	ness	Kurt	osis
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error
RoleOverload	125	2.00	4.33	3.3440	.55711	375	.217	365	.430
RoleAmbiguity	125	1.25	4.50	2.8220	.68892	.216	.217	067	.430
Roleconflict	125	1.80	4.20	3.0208	.52965	114	.217	507	.430
Politicalpressure	125	1.75	4.50	2.9840	.55788	.104	.217	378	.430
Responsibilityofpersons	125	1.33	5.00	3.1067	.89061	.073	.217	672	.430
Underparticipation	125	1.50	4.75	3.0500	.62217	.001	.217	273	.430
Powerlessness	125	1.67	4.67	3.5387	.80521	254	.217	958	.430
Peergrouprelations	125	1.50	5.00	3.1680	.66507	.135	.217	192	.430
Intrinsicimpoverishment	125	2.00	5.00	3.5420	.58865	111	.217	190	.430
Lowstatus	125	1.67	4.67	3.3733	.58598	159	.217	.037	.430
Strenuousworkingconditi	125	1.25	4.50	2.9700	.70896	206	.217	278	.430
on									
Unprofitability	125	1.00	5.00	3.2080	.94225	.305	.217	324	.430
Valid N (listwise)	125								

According to Table 4.2, it shows the level of each sub-dimension of Occupational stress. The main sources of occupational stress according to the means of the sub-dimensions are Intrinsic impoverishment, Powerlessness, Low status, Role overload, and peer group relations. The data of all the sub-dimensions are normally distributed as the statistic under skewness are in between +1 and -1.

Table 4.3 Descriptive analysis of Total occupational stress index

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation	Skewness		Kurtosis		
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error	
TOccupStr	125	2.64	3.68	3.1773	.21555	072	.217	222	.430	
Valid N (listwise)	125									

Table 4.3 shows the total occupational stress index mean is 3.17, which basically does not show a high level of stress but still within the ranges of concern, among the employees of the two Non-governmental employees and the data is asymmetrically distributed.

4.3 Sub-dimensions Comparison of Means

The table below 4.4 is the comparison of means between genders of the study. The sub-dimensions with the total occupational index have been compared using Independent Sample T-test. The results show



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that there are no significant difference between male and female in terms of occupational stress index as the T-test of all the sub-dimensions of occupational stress was insignificant P>0.05.

Moreover, another comparison using one-way ANOVA has been used to test whether there is a significant difference between the different groups of Age in terms of Total occupational stress Index, Table 4.5 shows also there is no significant different among the different groups of Age in terms of total Occupational stress. Since the ANOVA table is insignificant, all the comparison of post-hoc test between the groups of ages is also insignificant P>0.05.

Table 4.4 Independent sample T-test

Independent Samples Test

		Levene's Test Varia					t-test for Equality	of Means		
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Differe	
RoleOverload	Equal variances	.415	.521	667	123	.506	06912	.10356	27410	.13587
	assumed Equal variances not assumed			681	100.308	.497	06912	.10143	27034	.13211
RoleAmbiguity	Equal variances	3.457	.065	655	123	.514	08386	.12807	33736	.16964
KoleAmbiguity	assumed	3.437	.003							
	Equal variances not assumed			704	114.570	.483	08386	.11916	31991	.15218
Roleconflict	Equal variances assumed	3.454	.065	-1.066	123	.288	10468	.09818	29902	.08966
	Equal variances not assumed			-1.131	111.296	.260	10468	.09253	28803	.07867
Politicalpressure	Equal variances assumed	.019	.889	161	123	.872	01672	.10388	22233	.18890
	Equal variances not assumed			161	94.469	.872	01672	.10379	22278	.18935
Responsibilityofpersons	Equal variances assumed	3.998	.048	.119	123	.906	.01972	.16584	30855	.34799
	Equal variances not assumed			.111	76.887	.912	.01972	.17702	33277	.37221
Underparticipation	Equal variances assumed	.120	.730	.535	123	.594	.06192	.11572	16715	.29099
	Equal variances not assumed			.529	90.926	.598	.06192	.11707	17063	.29446
Powerlessness	Equal variances assumed	.273	.602	.408	123	.684	.06118	.14984	23542	.35778
	Equal variances not assumed			.399	87.416	.691	.06118	.15350	24390	.36626
Peergrouprelations	Equal variances assumed	.443	.507	214	123	.831	02655	.12382	27166	.21855
	Equal variances not assumed			221	103.334	.825	02655	.12004	26461	.21150
Intrinsicimpoverishment	Equal variances assumed	1.359	.246	1.003	123	.318	.10945	.10917	10665	.32555
	Equal variances not assumed			1.041	105.225	.300	.10945	.10515	09903	.31793
Lowstatus	Equal variances assumed	.748	.389	261	123	.795	02844	.10909	24437	.18750
	Equal variances not assumed			248	80.820	.805	02844	.11459	25643	.19956
Strenuousworkingconditi on	Equal variances assumed	.056	.813	164	123	.870	02167	.13201	28297	.23963
	Equal variances not assumed			163	92.248	.871	02167	.13292	28565	.24231
Unprofitability	Equal variances assumed	.258	.613	.898	123	.371	.15713	.17489	18906	.50331
	Equal variances not assumed			.903	95.853	.369	.15713	.17392	18810	.50236
TOccupStr	Equal variances assumed	.146	.703	.121	123	.904	.00486	.04014	07459	.08431
	Equal variances not assumed			.123	98.125	.903	.00486	.03961	07373	.08346

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Table 4.5 – One-way ANOVA

ANOVA

TOccupStr

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.208	4	.052	1.126	.347
Within Groups	5.553	120	.046		
Total	5.761	124			

Table 4.6 – Post Hoc test using Tukey

Multiple Comparisons

Dependent Variable: TOccupStr

Tukey HSD

		Mean Difference (l-			95% Confidence Interval			
(I) Age Age	(J) Age Age	J)	Std. Error	Sig.	Lower Bound	Upper Bound		
1 18-23	2 24-29	.16513	.09953	.463	1105	.4408		
	3 30-25	.20474	.11207	.363	1057	.5151		
	4 36-41	.13702	.10658	.701	1582	.4322		
	5 +42	.21566	.11320	.320	0979	.5292		
2 24-29	1 18-23	16513	.09953	.463	4408	.1105		
	3 30-25	.03962	.06291	.970	1346	.2138		
	4 36-41	02810	.05249	.983	1735	.1173		
	5 +42	.05054	.06489	.936	1292	.2303		
3 30-25	1 18-23	20474	.11207	.363	5151	.1057		
	2 24-29	03962	.06291	.970	2138	.1346		
	4 36-41	06772	.07354	.888	2714	.1360		
	5 +42	.01092	.08285	1.000	2186	.2404		
4 36-41	1 18-23	13702	.10658	.701	4322	.1582		
	2 24-29	.02810	.05249	.983	1173	.1735		
	3 30-25	.06772	.07354	.888	1360	.2714		
	5 +42	.07864	.07525	.834	1298	.2871		
5 +42	1 18-23	21566	.11320	.320	5292	.0979		
	2 24-29	05054	.06489	.936	2303	.1292		
	3 30-25	01092	.08285	1.000	2404	.2186		
	4 36-41	07864	.07525	.834	2871	.1298		

4.4 Factor Analysis

The 46 items of Occupational Stress Index (OSI) were analysed using principal components analysis (PCA). According to Table 4.7 shows a low value of Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy was .406, probably because the sample is less than 150 cases, but Bartlett's test of sphericity is significant with P=.000, which supports the factorability of the correlation's matrix.

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Table 4.7 – KMO and Bartlett's test

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure	.407	
Bartlett's Test of	Approx. Chi-Square	1318.863
Sphericity	df	1035
	.000	

PCA analysis showed the presence of 20 components with eigenvalue exceeding 1 according to Kaiser's criterion explains %71.1 of the variance as %cumulative. Moreover, reference to Table 4.8, when checking the component Matrix, more factors are loaded on the first 9 components which can also indicate 9 components to be suitable as number of factors to be retained in the study, Table 4.10 shows the item loadings of the factors on the 9 components. The 9 factors compared to the number of factors in the original scale was 12 factors. However, the sample used in this study shows 9 factors to be more suitable to be retained. The 9 components of factors if retained, it explains %40.1 of total variance.

Table 4.8 – Component Matrix – Kaiser's Criterion with 20 components

									Comp	onent Matrix	(^a									
										Comp										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
OSI33 33	666																			
OSI4555 45	644					316														
OSI31 31	.567			.444																
OSI4666 46	.546			.436	315							.314								
OSI23 23	397						.326													
OSI2 2	.387							331												
OSI14 14		419						.351												
OSI34 34		390					.315											.340		
OSI25 25		.371	.308						324			.320								
OSI28 28		.355			.336		.327													
OSI9 9			.515																	
OSI12 12		302	472		.373															
OSI433 43			.435															.316		
OSI444 44			324							.300										
OSI400 40			.319			305														
OSI3 3				466															.335	
OSI22 22				.438										.403						
OSI17 17				.348								.308								
OSI4 4					561															
OSI7 7					.409													.351		341
OSI29 29				.322	.365	.338			.327			312								
OSI32 32						394				.383	320									
OSI11 11		.323				.392							331							
OSI24 24				.324		.385														
OSI388 38		.304				334														
OSI399 39				306		.333														
OSI1 1		.406					.451												305	
OSI18 18	328						.338	.303							.329					
OSI10 10								.447					385							
OSI37 37								.333						.304						
OSI36 36									.402											
OSI422 42								358		.463										
08120 20		.354									409									
08126 26		.306						.314	.323		.370									
OSI16 16							304				.342									
OSI6 6									.309			.314								
08130 30									320	.357			.423							
OSI4111 41			316								369		.386							
OSI21 21			311		312		332							.459						
OSI19 19	.321													.390						
OSI27 27			.445												.456					
0811515						.397	390								.413	.317				
OSI13 13																.693				
OSI8 8						.326			.338								.352			
08135 35				313							329								.413	
0815 5																				.304
Extraction Met	Bood: Dringin	al Compone	nt Analyeie																	

extraction Method: Principal Component An a. 20 components extracted.



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Table 4.9 – Component Matrix – Fixed number of factors as 9 Factors

Component Matrix^a

	Component										
	1	2	3	4	5	6	7	8	9		
OSI33 33	666										
OSI4555 45	644					316					
OSI31 31	.567			.444							
OSI4666 46	.546			.436	315						
OSI23 23	397						.326				
OSI2 2	.387							331			
OSI19 19	.321										
OSI14 14		419						.351			
OSI34 34		390					.315				
OSI25 25		.371	.308						324		
OSI28 28		.355			.336		.327				
OSI20 20		.354									
OSI9 9			.515								
OSI12 12		302	472		.373						
OSI27 27			.445								
OSI433 43			.435								
OSI444 44			324								
OSI400 40			.319			305					
OSI4111 41			316								
OSI3 3				466							
OSI22 22				.438							
OSI17 17				.348							
OSI35 35				313							
OSI4 4					561						
OSI7 7					.409						
OSI29 29				.322	.365	.338			.327		
OSI15 15						.397	390				
OSI32 32						394					
OSI11 11		.323				.392					
OSI24 24				.324		.385					
OSI388 38		.304				334					
OSI399 39				306		.333					
OSI1 1		.406					.451				
OSI18 18	328						.338	.303			
OSI21 21			311		312		332				
OSI16 16							304				
OSI5 5											
OSI1313											
OSI10 10								.447			
OSI422 42								358			
OSI37 37								.333			
OSI36 36									.402		
OSI8 8						.326			.338		
OSI26 26		.306						.314	.323		
OSI30 30									320		
OSI6 6									.309		

Extraction Method: Principal Component Analysis.

a. 9 components extracted.

Conclusion

According to the data analysis of the findings of this study, it shows the main sources of Occupational stress comes from Intrinsic impoverishment, the feeling of being Powerlessness, having the feeling of having Low status compared to the superior, having more than one duty and role which is Role overload, and issues that occur between the co-workers and peer group relations. Moreover, the total mean of occupational stress index is 3.17, which in fact is not a high level of stress level, but it needs to be considered as it is within the concern range. Based on the tables of Independent sample t-test shows there is no significant difference between the genders of the study in terms of the sub-dimensions and total dimension of occupational stress. Finally, One-Way ANOVA has been performed to test whether there is a significant different among the groups of age of employees in terms of Stress level, results showed no significant difference. Overall, the results indicate a moderate level of stress exists among the employees of Non-Governmental Employees during the Pandemic Covid-19 virus and Factor analysis result show that the number of factors according to the current sample can be reduced to nine

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factors. The researcher recommends the NGOs to pay close attention to the sources of stress and work on the reducing the stressors which comes from the workplace. Moreover, to further research can focus on the post-covid workplace stress of the employees of NGOs and compare to compare the findings with the findings of the current research results.

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