

The Effects of Emotional Intelligence on Interpersonal Facilitation of Managers and Supervisors: Empirical Findings from Public Sector Enterprises in Kerala

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Abstract Research and discussions of EI predicted the possibility of the linkage between Emotional Intelligence skills and interpersonal facilitation. This study was conducted to examine empirically the extent to which Emotional Intelligence contributes to the interpersonal behaviours of managers and supervisors in Public Sector Enterprises in Kerala. The sample comprised of 500 respondents of which 243 were Managers and 257 were Supervisors in Public Sector Enterprises in Kerala. The data were analysed using SPSS 21 in which tools such as ANOVA, Correlation and Regression were applied. The results indicated that there is highly significant and positive relationship between Emotional Intelligence and interpersonal facilitation of managers and supervisors of Public Sector Enterprises in Kerala.

Keywords Emotional Intelligence, Interpersonal Facilitation, Public Sector Enterprises, Managers and Supervisors

1. Introduction

According to Dulewicz and Higgs Emotional Intelligence is about knowing what you are feeling, and being able to motivate yourself to get jobs done. It is sensing what others are feeling and handling relationships effectively [3]. Emotions drive behaviours, and an individual's ability to consider the potential overwhelming importance his or her own emotions may have on decision making is important. . A major factor in career success and personal satisfaction is our ability and willingness to establish and maintain healthy interpersonal interactions. Most professionals spend at least a third of their life at work. . If this time is to be used productively, they need to feel that the workplace is somewhere they want to be.

Any organization wishing to thrive through change must make the choice to promote, and allow employee

expressions of Emotional Intelligence (EI) said by Hunton and Robertson [9]. Emotional Intelligence is all about being able to interact with other people; using our own emotions in harmony with others' emotions to create a desired outcome. An individual who has the ability to recognize and manage his emotions , develop care and concern for others, make responsible decisions, establish positive relationships and handle challenging situations effectively.

Interpersonal facilitation is defined by Van Scotter, J. R. and Motowidlo, S.J as the extent to which a worker helps others, contributes to their effective task performance, or helps maintain a social and psychological climate that facilitates accomplishment of the organizations' goals [19]. Each individual has certain positive qualities called strengths. Knowing how and when to combine these strengths changes the atmosphere in which they work. According to Keltner and Haidt Emotional Intelligence contribute to the quality of people's relationship at work because emotions serve communicative and social functions, conveying information about thoughts and intentions, and helping to coordinate social encounters [13].

People skills are essential if a person wish to be successful in his dealings with others. This in turn affects his quality of life. The better skilled you are at communicating, the more likely you are to have reasonable relationships with people. Each organisation has a different way of doing things. Employees need to be able to tune in to the way of talking and acting so as to get the best out of workplace relationships.

Emotional Intelligence espouses social awareness and belief in the symbiotic outcome of cooperating with others. Possessing these skills makes establishing good relationships with other people a whole lot easier. . If Emotional Intelligence and interpersonal facilitation of employees go hand in hand there arises a comfortable work environment. Effective communication and emotional self-control, as well as understanding and appreciating the differences in others are reflections of interpersonal intelligence. The present study made an attempt to examine the relationship between

Emotional Intelligence and interpersonal facilitation of managers and supervisors in select public sector firms in Kerala.

2. Review of Literature

The notion of EI can be traced to Thorndike's (1920)^[18] concept of social intelligence, Wechsler's (1940)^[21] propositions of non-intellective abilities as well as Gardner's (1983)^[5] conceptualisation of personal intelligence. However, the term of 'emotional intelligence' (EI) owes its origin to Salovey and Mayer (1990)^[17]. They originally defined Emotional Intelligence as the ability of an individual to monitor one "own and others emotions, to discriminate among the positive and negative effects of emotion and to use emotional information to guide one's thinking and actions. Then Emotional Intelligence has been popularized by Goleman (1995, 1998)^[7&8], the concept is derived from social intelligence (Johnson and Indvik, 1999)^[11].

Unlike abstract intelligence, which refers to the ability to understand and manipulate symbols, or concrete intelligence, social intelligence refers to the ability to understand and relate to people. According to the Goleman's Emotional Intelligence model he identifies four Emotional Intelligence domains and 19 associated competencies. These four domains are self-awareness, self-management, social competence and social management Mayer, Salovey and Pelliger defined Emotional Intelligence as an individual's ability to accurately perceive reality so as to understand and regulate their own emotional responses as well as adapt and respond to others^[14 & 16]. This emerges as four interrelated social skills, grouped around knowledge, perception, regulation and general intelligence^[14]. Leaving aside general intelligence, the other components relate to the individual's ability to manage their emotional response^[8 & 14]. Emotional perception allows individuals to respond congruently, as they recognize their own and others' emotional responses. Emotional regulation means individuals self-monitor the intensity and direction of their own and others' emotional responses, as Pelliger^[16] highlights, allowing them to moderate negative emotional reactions and remain positive. Regulation, the third component, allows individuals to utilize their emotional knowledge to promote creativity and flexibility, social relations and maintain motivation. Mayer and Salovey^[14] recommend this framework be operationalized in the following ways. First, individuals who understand their own emotions can more accurately identify their responses and so change if need be. Second, the intellectual use of emotions means individual's cognitive decisions are more acute, so they are better able to assimilate information, make judgments or be creative and solve problems. This suggests emotionally intelligent people are more self-aware regarding their strengths and limitations, and because of this they are claimed to be more confident, optimistic, flexible, innovative and comfortable with new ideas^[2, 7, 8&14].

Mellers et al.^[15] concluded emotions people expect to experience or have experienced as a result of their decisions are important determinants of their current and future behavior. Winter and Kuiper^[22] noted individuals differ in systematic ways in how they experience emotions, how they differentiate among emotions and how much emotional information they can process. Emotions are inseparable from individuals and very often emotions determine individual behaviour, decision making styles and even relationships^[20]

Fineman describes Emotional Intelligence as a way of recognizing, understanding and choosing how we think, feel and act. It shapes our interaction with others and our understanding of ourselves. It defines how and what we learn, it allows us to set priorities, it determines the majority of our daily actions^[4]. Huy^[10] introduced the concept of emotional capability to capture an organization's ability to acknowledge, recognize, monitor, discriminate, and attend to its members' emotions, and it is manifested in the organization's norms and routines related to the feeling.

George described Emotional intelligence, as a component of interpersonal skill, aids in managing personal feelings along with the moods and emotions of others^[6]. Jordan, Ashkanasy and Hartel found that Emotional Intelligence is different from personality in that it brings together a varied group of abilities which explain how people recognize and manage emotions^[12]. In this study, it was found that Emotional Intelligence influences social interaction and relationship development more than that of traditional personality measures.

All these pioneering definitions lead to conclude that EI is important in shaping one's personality, behaviour, style, and abilities.

3. Conceptual Frame Work

Based on the literature findings, the conceptual framework was constructed to show the relationship between independent variable (Emotional Intelligence) and dependent variable (Interpersonal facilitation).

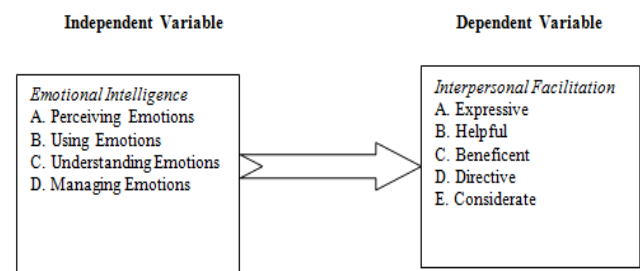


Figure 1. Conceptual frame work

Emotional Intelligence (EI) involves a set of skills that define how effectively you perceive, understand, express, reason with and manage your own and others feelings in a professional and effective manner. Under this major variable, four factors were used as minor variables. They are the ability to perceive emotions, ability to use emotions, ability

to understand emotions and ability to manage emotions. Perceiving emotions refers to the capacities and abilities of recognizing and identifying emotions in others, in addition to biological and physiological processes involved. Using emotions refers to the capacity of the emotions to enter into and guide the cognitive system and promote thinking. Understanding emotions encompasses the ability to be sensitive to slight variations between emotions, and the ability to recognize and describe how emotions evolve over time. Managing emotions is the ability to regulate emotions in both ourselves and in others. Therefore, the emotionally intelligent person can harness emotions, even negative ones, and manage them to achieve intended goals.

Interpersonal facilitation pertains to interpersonally oriented behaviors that contribute to organizational goal attainment. Interpersonal facilitation is influenced by sub factors such as expressive behaviour, willingness to help, altruistic character, guiding others in the right direction and consideration of others.

4. Research Methodology

4.1. Objectives of the Study

The primary objective of this study is to describe the relationship between Emotional Intelligence and interpersonal facilitation of Managers and Supervisors in Public sector firms in Kerala. The objectives of the study include:

- i. To establish the effect of demographic variables on Emotional Intelligence factor.
- ii. To give suggestions to attain better interpersonal facilitation of managers and supervisors through improved Emotional Intelligence.

4.2. Hypotheses

H1: There is no significant difference between age and Emotional Intelligence of managers and supervisors.

H2: There is no significant difference between gender and Emotional Intelligence of managers and supervisors.

H3: There is no significant difference between total service and Emotional Intelligence of managers and supervisors.

H4: There is no significant difference between qualification and Emotional Intelligence of managers and supervisors.

H5: There is no significant relationship between Emotional Intelligence factors and interpersonal facilitation factors.

4.3. Variables

From the review of literature the following variables were identified for the study. Emotional Intelligence factors include perceiving emotions, using emotions, understanding emotions and managing emotions. Interpersonal facilitation factors include expressive, helpful, beneficent, directive, and considerate behaviours of a person.

4.4. Research Design

A descriptive research approach was adopted for this study, in order to satisfy the research objectives. Primary and secondary data were used for this study. To obtain the primary data, a self-administered questionnaire was used. Journal articles, books and magazines were used in order to obtain the secondary data. This research design describes the state of affairs as it exists at present.

4.5. Sample and Data Collection

The target population for this investigation included respondents from Public Sector Enterprises in Kerala. Data were collected from 243 managers and 257 supervisors of Public Sector Enterprises with the help of a structured questionnaire. Public Sector Enterprises were selected from three regions (northern region, central region and southern region) of Kerala keeping in mind the number of managers and supervisors working in the firms. Judgment sampling was used to select the respondents from selected firms. The following table summarises the identification of Public Sector Enterprises.

Table 1. Sample Selection

Region	Enterprise Criteria		No. of firms	Population	Enterprises selected	No. of respondents
South	Manufacturing	Profit	13	Managers-589	1	21
				Supervisors-761		27
		Loss	11	Managers-182	1	7
			Supervisors-690	25		
	Service	profit	24	Managers-4275	1	154
				Supervisors-1328		48
Loss		14	Managers-392	1	14	
		Supervisors-2169	78			
Central	Manufacturing	Profit	9	Managers-315	1	12
				Supervisors-367		13
		Loss	7	Managers-150	1	6
			Supervisors-188	7		
	Service	profit	3	Managers-610	1	22
				Supervisors-1277		46
Loss		5	Managers-114	1	4	
		Supervisors-272	10			
North	Manufacturing	Profit	2	Managers-24	1	1
				Supervisors-17		1
		Loss	4	Managers-84	1	3
			Supervisors-34	1		
	Service	profit	nil			
Loss		nil				
Total			92	13838	10	500

4.6. Questionnaire

The questionnaire used for this study consists of three sections. Section A was intended to collect the demographic data of the respondents. Section B and C consist of statements related to Emotional Intelligence and interpersonal facilitation factors. A five point Likert scale was used to record the response. The study compared the effect of Emotional Intelligence on interpersonal facilitation of managers and supervisors. Thirty four close ended items have been used to measure EI variable. Cronbach’s alpha revealed that overall reliability of this variable is 0.914. Fifteen close ended items have been used to measure the variable interpersonal facilitation. Cronbach’s alpha revealed that overall reliability of this variable is 0.760.

Average Variance Extracted (AVE) is an important measure of discriminant validity. The AVE value for the study variable emotional intelligence is 0.78 and Interpersonal facilitation is 0.80. For average variance extracted, the loadings should be equal to 0.50. Here all constructs have normal values.

Questionnaire was administered directly to the respondents. 624 questionnaires were distributed and only 582 were returned. From this 500 completed questionnaires were taken for the study.

4.7. Instruments and Measures

Descriptive statistics were calculated. Babbie, Earl R. [1] stated that descriptive statistics are used to describe the basic features of the data in a study. They provide simple summaries about the sample and the measures. Together with simple graphics analysis, they form the basis of virtually every quantitative analysis of data. Specifically

descriptive statistics such as frequency distribution were calculated to summarize the sample data distribution. In order to analyse the data SPSS 21 was used. To find out the relationship between the variables of the study, Pearson’s correlation analysis; Regression; and ANOVAs were used.

5. Analysis and Interpretation

5.1 Demographic Features of Respondents

Table 2. Demographic Features

Characteristics	Frequency	Percent
Agegroup		
<30	75	15
31-40	187	37.4
41-50	138	27.6
51-60	100	20
Gender		
Male	370	74
Female	130	26
Designation		
Supervisors	257	51.4
Managers	243	48.6
Total Service		
<10	115	23
11-20	190	38
21-30	185	37
>30	10	2
Qualification		
UG	173	34.6
PG	203	40.6
Professional	124	24.8

74 % of the respondents are male. Highest percentage of respondents (37.4%) belongs to the age group of 31 to 40. 51.4% of respondents belongs to the supervisory category.

38% of the respondents has 11 to 20 years of service and another 37% has 21 to 30 years of service. Educational qualification of 40.6% of the respondents is post-graduation.

5.2. Relationship between Emotional Intelligence and Age Group of Respondents

In order to find out the relationship between Emotional Intelligence factors; and age group of managers and supervisors, one way ANOVA was performed.

H₀: There is no significant relationship between age and Emotional Intelligence of managers and supervisors.

H₁: There is significant relationship between age and Emotional Intelligence of managers and supervisors.

From the table 3 it is clear that the p value is less than .05 for 'perceiving emotions', 'using emotions' and 'understanding emotions' and hence H₀ is rejected. Thus

there is significant relationship exist between age group of managers and supervisors and Emotional Intelligence factors of perceiving emotions, using emotions and understanding emotions.

5.3. Relationship between Emotional Intelligence and Gender of Respondents

H₀: There is no significant relationship between gender and Emotional Intelligence of managers and supervisors.

H₁: There is significant relationship between gender and Emotional Intelligence of managers and supervisors.

The table shows that p value is greater than .05. H₀ is accepted. Hence there is no significant relationship exist between gender of managers and supervisors and the factors of Emotional Intelligence.

Table 3. ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Perceiving emotions	Between Groups	13.958	3	4.653	4.110	.007
	Within Groups	561.479	496	1.132		
	Total	575.438	499			
Using emotions	Between Groups	11.513	3	3.838	2.106	.099
	Within Groups	903.954	496	1.822		
	Total	915.467	499			
Understanding emotions	Between Groups	12.354	3	4.118	3.594	.014
	Within Groups	568.316	496	1.146		
	Total	580.669	499			
Managing emotions	Between Groups	10.099	3	3.366	2.010	.112
	Within Groups	830.847	496	1.675		
	Total	840.946	499			

Table 4. ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Perceiving emotions	Between Groups	1.770	1	1.770	1.537	.216
	Within Groups	573.667	498	1.152		
	Total	575.438	499			
Using emotions	Between Groups	.217	1	.217	.118	.731
	Within Groups	915.250	498	1.838		
	Total	915.467	499			
Understanding emotions	Between Groups	.374	1	.374	.321	.571
	Within Groups	580.295	498	1.165		
	Total	580.669	499			
Managing emotions	Between Groups	.742	1	.742	.440	.508
	Within Groups	840.204	498	1.687		
	Total	840.946	499			

5.4. Relationship between Emotional Intelligence and Designation of Respondents

H₀: There is no significant relationship between designation and Emotional Intelligence of managers and supervisors.

H₁: There is significant relationship between designation and Emotional Intelligence of managers and supervisors.

Table 5. ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Perceiving emotions	Between Groups	.120	1	.120	.104	.747
	Within Groups	575.317	498	1.155		
	Total	575.438	499			
Using emotions	Between Groups	.454	1	.454	.247	.620
	Within Groups	915.013	498	1.837		
	Total	915.467	499			
Understanding emotions	Between Groups	3.975	1	3.975	3.433	.065
	Within Groups	576.694	498	1.158		
	Total	580.669	499			
Managing emotions	Between Groups	.062	1	.062	.037	.848
	Within Groups	840.884	498	1.689		
	Total	840.946	499			

The table shows that p value is less than .05 for the factor ‘understanding emotions’. For other factors p value is greater than .05 and hence H₀ is accepted. Hence there is no significant relationship exist between designation of respondents and Emotional Intelligence.

5.5. Relationship between Emotional Intelligence and Total Service of Respondents

H₀: There is no significant relationship between total service and Emotional Intelligence of managers and supervisors.

H₁: There is significant relationship between total service and Emotional Intelligence of managers and supervisors.

Table 6. ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Perceiving emotions	Between Groups	11.378	3	3.793	3.335	.019
	Within Groups	564.059	496	1.137		
	Total	575.438	499			
Using emotions	Between Groups	11.345	3	3.782	2.075	.103
	Within Groups	904.122	496	1.823		
	Total	915.467	499			
Understanding emotions	Between Groups	14.783	3	4.928	4.319	.005
	Within Groups	565.887	496	1.141		
	Total	580.669	499			
Managing emotions	Between Groups	7.480	3	2.493	1.484	.218
	Within Groups	833.466	496	1.680		
	Total	840.946	499			

From the above table it is clear that the p value is less than .05 for ‘perceiving emotions’ and ‘understanding emotions’ and hence H₀ is rejected. Hence there is significant relationship exist between years of service of managers and supervisors and Emotional Intelligence factors of perceiving emotions and understanding emotions.

5.6. Relationship between Emotional Intelligence and Qualification of Respondents

H₀: There is no significant relationship between qualification and Emotional Intelligence of managers and supervisors.

H₁: There is significant relationship between qualification and Emotional Intelligence of managers and supervisors.

Table 7. ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Perceiving emotions	Between Groups	3.483	2	1.741	1.513	.221
	Within Groups	571.955	497	1.151		
	Total	575.438	499			
Using emotions	Between Groups	5.807	2	2.903	1.586	.206
	Within Groups	909.660	497	1.830		
	Total	915.467	499			
Understanding emotions	Between Groups	1.141	2	.571	.489	.613
	Within Groups	579.528	497	1.166		
	Total	580.669	499			
Managing emotions	Between Groups	.261	2	.131	.077	.926
	Within Groups	840.685	497	1.692		
	Total	840.946	499			

Here also the p value is greater than .05 and H_0 is accepted. Hence there is no significant relationship exist between qualification and Emotional Intelligence of respondents.

5.7. Relationship between Emotional Intelligence and Interpersonal Facilitation.

Bivariate analysis has been carried out in order to study the relationship between Emotional Intelligence and Interpersonal Facilitation. For bivariate analysis both correlation and regression were used.

Hypothesis was formulated to establish the association and the nature of relationship between Interpersonal facilitation and the four dimensions of Emotional Intelligence.

H_0 : There is no significant relationship between Emotional Intelligence factors and interpersonal facilitation.

H_1 : There is significant relationship between Emotional Intelligence factors and interpersonal facilitation.

Table 8. Correlations

		Perceiving emotions	Using emotions	Understanding emotions	Managing emotions	Interpersonal facilitation
Perceiving emotions	Pearson Correlation	1	.287**	.217**	.258**	.594**
	Sig. (2-tailed)		.000	.000	.000	.000
	N	500	500	500	500	500
Using emotions	Pearson Correlation	.287**	1	.179**	-.011	.468**
	Sig. (2-tailed)	.000		.000	.806	.000
	N	500	500	500	500	500
Understanding emotions	Pearson Correlation	.217**	.179**	1	.202**	.451**
	Sig. (2-tailed)	.000	.000		.000	.000
	N	500	500	500	500	500
Managing emotions	Pearson Correlation	.258**	-.011	.202**	1	.382**
	Sig. (2-tailed)	.000	.806	.000		.000
	N	500	500	500	500	500
Interpersonal facilitation	Pearson Correlation	.594**	.468**	.451**	.382**	1
	Sig. (2-tailed)	.000	.000	.000	.000	
	N	500	500	500	500	500

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

Analysis of the data obtained from the Pearson correlation analysis, indicates that interpersonal facilitation is positively correlated with the four components of Emotional Intelligence. The association is significant at the 0.01 level, which indicates that the association is highly significant and the relationship is positive. The correlation analysis also reveals that the association is highly significant and the strength of the association between interpersonal facilitation and the four component of Emotional Intelligence are very strong. The value of coefficient (r) determines the strength of the association and is very strong and positive between perceiving emotions, using emotions, understanding emotions and interpersonal facilitation (.594) (.468), (.451) respectively. However as compared to perceiving emotions, using emotions and understanding emotions, the association is moderately strong among managing emotions and interpersonal facilitation. The value is 0.382.

From the table given above, it is seen that, the value of p is less than 0.01. Therefore H_0 is rejected. Hence, there is significant relationship between Emotional Intelligence and interpersonal facilitation.

Regression Analysis

Table 9. Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.764 ^a	.584	.581	.64267
a. Predictors: (Constant), managing emotions, using emotions, understanding emotions, perceiving emotions				

The table illustrates that value of R square is .584 which is equal to 58.4%. This means that independent variable (Emotional Intelligence of managers and supervisors) is accounting for 58.4% of variation in the dependent variable (interpersonal facilitation).

Table 10. ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	287.160	4	71.790	173.818	.000 ^b
	Residual	204.444	495	.413		
	Total	491.604	499			
a. Dependent Variable: interpersonal facilitation						
b. Predictors: (Constant), managing emotions, using emotions, understanding emotions, perceiving emotions						

F (4, 495) = 173.818; P<0.01

From the table given above, it is seen that, the value of p is less than 0.01. Hence the overall effect of this independent variable (Emotional intelligence) is highly significant. Therefore, the study can generalise the results of sample to predict for the entire population.

6. Discussion

The study analysed the effects of demographical variables on emotional intelligence. The test results show that there is a significant relationship between the demographical

variables (such as age and total service) of managers and supervisors; and their Emotional Intelligence. But the variables like gender, designation and qualification of managers and supervisors do not have significant relationship on emotional intelligence. Emotional Intelligence has four elements: perceiving emotions, using emotions, understanding emotions, and managing emotions. Emotional Intelligence helps the managers and supervisors to create a positive environment so that people are happy working together. The result of correlation coefficient and regression revealed that Emotional Intelligence of managers and supervisors is significantly related with interpersonal facilitation in an organization. The study results provide sufficient evidence for the fact that Emotional Intelligence, measured as a set of abilities is associated positively with interpersonal behaviours. By having clear understanding of Emotional Intelligence, managers and supervisors in Public Sector Enterprises can increase the job commitment, loyalty and growth of organization.

6.1. Practical Implications of the Study

From the study it is revealed that there is strong correlation between Emotional Intelligence and interpersonal facilitation of managers and supervisors in public sector firms in Kerala. By developing Emotional Intelligence skills, managers and supervisors will understand that their thoughts and feelings are being appreciated and accepted. Success of managers and supervisors is not only based on reaching the targets, but also on the development of his or her team and establishing good relationships. It is also desirable that since Emotional Intelligence has significant impacts on interpersonal facilitation, the managers and supervisors should be coached on Emotional Intelligence skills.

6.2. Recommendations for Future Studies

Further studies can include larger and broader samples that are more representative of the population, examining other factors of workplace outcomes such as work attitude, performance management, organisation citizenship behaviour, employee motivation, decision making process, stress management etc. Employees at different levels in the organisation should be included in the study.

7. Conclusions

To be an effective person at work, employees should be able to demonstrate problem solving ability, decision making aptitude, clear communication skills and be proficient at managing workplace relationships. Emotionally intelligent people will have awareness of situations pertaining to themselves and beyond their own personal perspectives. Results of the study strongly support that by developing Emotional Intelligence skills, employees can improve personal productivity at work and attain a high level of quality relationships both inside and outside the job. These

employees show a healthy awareness of what is going on around him both physically and psychologically. Hence PSEs should take initiatives to improve the EI of their managers and supervisors to have better interpersonal facilitation, which will have an effect on improving performance.

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