The coetaneous study was effectuated to develop and validate a self-report measure of Emotional Intelligence. With an aim to develop a reliable and valid measurement instrument of emotional intelligence based on mixed model, the mixed model of emotional intelligence and literature on it were investigated, and then an item pool with 60 items was developed. Fourteen experts of emotional intelligence examined 72 items. In order to make the expert's judgments standardized, Law she Content Validity Ratio was used. As a result of the ratio analysis, 12 items were discarded from initial draft of the scale. Data were collected from a sample of 1664 individuals including 874 men and 790 women recruited from different cities of India for the exploratory factor analysis whose results indicated the scale includes uni dimensionality. Results indicated that the scale is reliable and valid instrument in measuring emotional intelligence. Construct validity was supplemented by finding its relationship with peer rating and correlation was found to be moderately positive. The Scale is a reliable and valid measure with good items homogeneity, internal consistency and a meaningful pattern.
1. INTRODUCTION

Emotional intelligence (EI) has offered new paradigm for educationalists that try to explain success and adjustment to environment. Concept of the EI first was developed by Mayer and Salovey (1990). However Goleman (1995) made it popularized and publicized. Large body of the research has proved that EI has positive impact on educational attainment, social adjustment, happiness, and academic self-efficacy (Hen and Goroshit, 2012; Hogan, Parker, Wiener, Watters, Wood, & Oke, 2010; MacCann, Fogarty, Zeidner, Roberts, 2011; Mavrovelli and Ruiz, 2010; Newsome Day, & Catano, 2000; Qualter Gardner, Pope, Hutchinson, Whiteley, 2012; Tariq, Qualter, Roberts, Appleby, Barnes, 2013; Saklofske, Auisin, Mastoras, Beaton, & Osborne, 2012; Sanchez-Ruiz, Mavrovelli, Poullis, 2013; Van Der Zee, Thijs, & Schakal, 2002).

However there are disagreements and conflicts about definitions, qualities, and conceptualization of the EI. Those disagreements have stemmed from measurement paradigm of the EI (Zeidner, Matthews, & Roberts, 2009). There are mainly three streams in EI: ability model, mixed models, and trait model (Zeidner et al., 2009). Salovey and Mayer (1990) developers of the ability model, described as that EI is the capacity to recognize and manage emotions in ourselves and in others, process emotional information.

In the ability model, EI is assumed as capability of carrying out accurate emotional reasoning (Mayer, Roberts, & Barsade, 2008). The ability model constructs emotion and reasoning under same phenomena. The model consists of four abilities (those accurately perceiving emotion, using emotion to facilitate thought, understanding emotion, and managing emotion) (Salovey and Mayer, 1990; Mayer, Salovey, Caruso, & Sitarenios, 2003; Mayer, Salovey, & Caruso, 2004). In the ability model, there is a close interaction among the skills. For instance a child cannot be efficacious without perceiving emotion in herself (Mayer and Salovey, 1997). Mixed models, another approach to the EI, view the EI as an integration of skills and qualities such as personality and motivational dispositions that are necessary to use the EI in real life. Proponents of the EI (Goleman, 1998; Bar-On, 2006; Petrides, 2001; Petrides, Pita, & Kokkinaki, 2007) deal with a wide range of skills and competencies rather than to define it as a single construct.

In other words, EI is explained through broad definitions such as noncognitive capability, competency, skill or emotionally intelligent behavior, and dispositions of personality (Bar-On, 2006; Boyatzis, Goleman, & Rhee, 2000; Petrides, 2001; Petrides and Furnham, 2003). Bar-On (2000) describes the EI as cluster of non-cognitive skills that are necessary to cope with effectively environmental demands.
Bar-On (2006) suggests that the EI is one of the main determinants of effective human behavior. Bar-On (1997) developed EI model consisting of intrapersonal capacity, interpersonal skills, adaptability, stress management, motivation, and general mood. The Bar-On model claims that the EI is a joint of interrelated competencies, skills, and facilitators that influence how effectively an individual understands and expresses himself, recognize emotions in others, has good relationships with others, and fulfill social and environmental pressures (Bar-On, 2006).

Goleman (1998) model is another model in the mixed models. It has five sub-dimensions as self-awareness, self-management, empathy, motivation and social skills. Trait model developed by Petrides (2001) is another approach to the EI. Trait EI is a constellation of self-perception of the lower level of personality constructs. Trait EI includes 5 facets as adaptability, low impulsiveness, self-esteem, self-motivation, stress management, trait happiness, trait optimism, assertiveness, relationship skills, social competence, trait empathy, emotional expression, emotional management, emotional perception, and emotional regulation (Petrides, 2001; Petrides, 2010). The difference between the EI models stems from way of measurement and assessment of the EI (Mayer, Salovey, Caruso, 2008; Perez, Petrides, & Furnham, 2005; Wigelsworth Humphrey, Kalambouka, & Lendrum, 2010, Zeidner et.al. 2009). The ability model deals with measurement and assessment of the EI in the same way as traditional intelligence standard test measures and assesses. The ability model measures and assesses through performance-based test because of the fact that the ability model deals with the EI as a single construct and standard intelligence type.

According to the ability model, the EI is the capacity in reasoning with emotions. Therefore, the EI can be measured and quantified through the way in which standard traditional intelligence is measured. Participants’ response on the EI related tasks are measured and assessed in accordance with such objectively right answer that measurement and assessment of the EI capabilities through the ability model does not include any bias or exaggerated evaluation of emotional capabilities.

However, measurement and assessment in the ability model are tough, not easy to administer due to the fact that expert panelists are needed to assess which respond is true, make decision about what respond is right according to objective rules (Wigelsworth et al., 2010; Wilhelm, 2005). There are several instruments aiming to measure the EI related skills through the ability model and performance based tasks. Salovey and Mayer (1990) developed four branch of the EI, and devised the Multi Factor Emotional Intelligence Scale (MEIS). However, it was not found satisfactory in terms of validity and reliability.
Mayer et al. (2002) developed the Mayer Salovey Caruso Emotional Intelligence Test (MSCEIT) to attenuate lengthy MEIS and ameliorate psychometric properties of the MEIS. Construct validation of the MSCEIT via confirmatory factor analysis by Rossen, Kranzler, & Algina (2008) revealed that the MSCEIT does not cover all constructs developed by Mayer et al. (2002), although Mayer, et al. (2003) founded that the MSCEIT has good model fit indices. Furthermore, Fan, Jackson, Tang, & Zhang (2010) suggested that three factor solution of the MSCEIT has the best fitting model. Mayer et al. (in press) designed the MSCEIT Youth Version for children and youth between the ages 10 and 18 years.

Peters, Kranzler, & Rossen (2009) investigated the MSCEIT-YV’s construct validity and criterion-related related validity and concluded that it is a valid instrument in measuring emotional intelligence based on the ability model. Similarly, Rivers, Brackett, Reyes, Mayer, Caruso, & Salovey (2012) found that the MCEIT-YV produces valid results in measuring emotional intelligence among children aged from 10 to 13. Emotional Intelligence Scale for Children (EISC) was developed by Sullivan (1999) through the ability model. However, internal consistency between subscales of the EISC varied low to moderate.

Freudenthaler and Neubauer Emotional Intelligence Performance Test is another instrument use to assess emotional intelligence through performance-based approach and the ability model in EI (Freudenthaler and Neubauer, 2003). Emotional Accuracy Research Scale was developed by Mayer and Geher (1996) in accordance with the ability model. Both of the scales do not have any child or adolescent form. The mixed models make emotions quantifiable through self-report. Self-assessment of emotions assumes that participants are competent enough to evaluate how much they have quality in emotions or their behaviors about the EI skills.

In contrast to the ability model and performance based assessment, self-report of emotional responds may not have any objective criteria. Therefore, it is easy to administer and evaluate. There are numerous scales measuring the EI via self-report. Emotional Quotient Inventory developed by (Bar-On, 1997) is a self-report inventory with 133 items. Bar-On and Parker (2000) devised its youth version that measures the EI of children adolescents who are aged between 7 and 18 years.

Another seminal measurement instrument of the EI is Trait Emotional Intelligence Questionnaire (TEIQue) developed by Petrides (2001). Petrides et al.(2006) adapted it to child and adolescent characteristics by shortening its length and named as Trait Emotional Intelligence Questionnaire- Adolescent Short Form (TEIQue-ASF). The
TEIQue-ASF consists of 30 items, two for each of the 15 facets of Trait Emotional Intelligence and measures global trait EI. Its internal consistency reliability coefficient was found as 0.84.

In addition to that, Cooper and Petrides (2010) tested its psychometric construction by using item-response theory and found that TEIQue-ASF has good psychometric properties. However, the fact that the TEIQue and TEIQue-ASF consist of too broad definitions and sub-dimensions, has drawn considerable criticism (Wigelsworth et al., 2010).

In this present study, an emotional intelligence scale, which measures emotional intelligence through self-report and are originated from Goleman (1998) conceptualization. Measuring emotional intelligence via self-report assumes that participants in the sample have an insight about their social and emotional skill in depth and are objective, consistent, and genuine in assessing those skills. Age of 10 is a period in which meta-cognitive awareness, abstract reasoning, and objective thinking without being impressed with events, and objects begin to emerge among children.

Moreover, Gender differences are clear between early childhood and age of 8 in favor of female children with respect to emotional intelligence skills. However, this difference disappears between 10 to 12 years because of more increase in male children’s emotional intelligences (Keefer et al., 2013). Therefore, during primary school process, age of 10 is a period in which both female and male children are equal in terms of emotional intelligence skills. When the literature is closely investigated, it can be seen that emotional intelligence scales for children and adolescents were designed in accordance with the Ability Model, the Bar-on Model, the Trait Emotional Intelligence Model but there is no emotional intelligence scale which originated from Goleman’s conceptualization of the EI. Therefore, existing scale were grounded on such different models were there is no use in modifying them. Therefore, the present study aims to develop valid and reliable instrument of the EI based on Goleman’s conceptualization of the EI.

2. OBJECTIVE OF THE STUDY
To develop and validate a self-report measure of Emotional Intelligence.

3. METHODOLOGY
The aim of the present study is to develop a self-report emotional intelligence for subjects of and above 10 years in age so as to measure and assess level of emotional learning. Item development, content validity, structural validity, reliability, and validity analysis were orderly carried out in the development process. The present study
consists of two factor analysis as Exploratory Factor Analysis discovering factor structures, internal consistency coefficients and Confirmatory Factor Analysis which investigates how well data fit into previously revealed factor structures (DeVellis, 2012).

**Item Generation**
The scale development process began with the creation of items to assess a construct under examination. This process was conducted inductively, by generating items first, from which scales were then derived. Experts on the subject were typically asked to provide descriptions of their perception to describe emotional intelligence. Responses were then classified into different categories by content analysis. From these categorized responses, items were then derived. For item development, basic guidelines were followed to ensure that the items are properly constructed. Statements are simple and as short and the familiar language is used to target respondents.

**Content Adequacy Assessment**
The items were pre-tested for content adequacy. Assuring content adequacy prior to final questionnaire development provides support for construct validity as it allows the deletion of items that may be conceptually inconsistent. Experts in the content domain along with the naive respondents were presented with construct definitions without titles and are asked to match items with a corresponding definition. An acceptable agreement index was determined prior to administration of the items and definitions.

**Questionnaire Administration**
The retained items were then presented to an appropriate sample with the objective of examining how well those items confirmed expectations regarding the properties of the new measure. The new items were administered with other established measures to later assess the distinction or overlap among the proposed and existing scales. In addition, data from existing measures was used for preliminary examination of construct and criterion-related validity of the new scale.

**Item Scaling**
Likert scales are the most commonly used in survey research using questionnaires (Cooket al., 1981: Schmitt and Klimoski, 1991). Likert scales include several “points" along a continuum that define various amounts or levels of the measured attribute or variable (e.g., agreement, frequency, importance etc.).

**Sample Size**
The data was collected from an adequate sample size to appropriately conduct subsequent analyses. Earlier recommendations for item-to-response ratios ranged from 1:4 (Rummel, 1970) to at least 1:10 (Schwab, 1980) for each set of scales to be factor analyzed. Recent studies have found that in most cases, a sample size of 150 observations should be sufficient to obtain an accurate solution in exploratory factor analysis, as long as item inter-correlations are reasonably strong (Guadagnoli and Velicer, 1988). For confirmatory factor analysis, we recommend a minimum sample size of 100 (cf., Bollen, 1989). However, we suggest that a conservative approach be adopted. As the number of items increases, it may be necessary to increase the number of respondents. As sample size increases, the likelihood of attaining statistical significance increases, which in turn may distort the practical meaning of the results. In this study, a significant sample of 1664 subjects was taken.

4. RESULT AND DISCUSSION

Factor Analysis
There are two basic types of factor analyses available for the scale development process. The first is termed exploratory and is commonly used to reduce the set of observed variables to a smaller, more parsimonious set of variables. The second type is called confirmatory and is used to assess the quality of the factor structure by statistically testing the significance of the overall model (e.g., distinction among scales), as well as the relationships among items and scales. As the authors used the inductive approach, exploratory factor analysis was used.

Internal Consistency Assessment
After unidimensionality of each scale has been established (Gerbing and Anderson, 1988). Reliability was calculated by Cronbach’s alpha which tells how well the items measure the same construct (Price and Mueller, 1986).

**Construct Validation**
At this point, the new scale demonstrated content validity and internal consistency reliability, both of which provided supportive evidence of construct validity. Further evidence of construct validity was accomplished by examining the extent to which the scales correlated with other measures designed to assess similar constructs (convergent validity) and to which they do not correlate with dissimilar measures (discriminant validity).

**Replication**
It was then necessary to collect another set of data from an appropriate sample and repeat the scale-testing process with the new scales. The data from sources other than the respondent, such as performance appraisals, peers were collected. These analyses ensured the researcher with the confidence that the finalized measures possess reliability and validity and would be suitable for use in future research.

Cronbach’s Alpha has been taken as a measure of reliability. It was decided that a scale with an Alpha reliability of 0.70 or more would be considered adequate reliability (Nunnally, 1978). This is conventionally accepted as a thumb rule for reliability. It was also decided that item must have a minimum of 0.30 items to total correlation. To ascertain face validity and content validity it was decided that at least six psychologists and educationists agreed that item on face value belonged to the dimension that it aimed to measure concurrent validity. It was also addressed by having scores of respondents on certain criterion variables.

This scale has sufficient level of reliability and validity. The authors has reported the value of internal reliability (a=0.88), and content and face validity is examined by asking from 10 specialists.
### Table 1: The EQ-i Scales and the factors assessed by them

| EQ-i SCALES              | The EI Competencies and Skills Assessed by Each Scale                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Intrapersonal           | Self-awareness and self-expression:                                                                                   |
| Self-Regard             | To accurately perceive, understand and accept oneself.                                                                   |
| Emotional Self-Awareness| To be aware of and understand one’s emotions.                                                                           |
| Assertiveness           | To effectively and constructively express one’s emotions and oneself.                                                    |
| Independence            | To be self-reliant and free of emotional dependency on others.                                                           |
| Self-Actualization      | To strive to achieve personal goals and actualize one’s potential.                                                      |
| Interpersonal           | Social awareness and interpersonal relationship:                                                                       |
| Empathy                 | To be aware of and understand how others feel.                                                                          |
| Social Responsibility   | To identify with one’s social group and cooperate with others.                                                          |
| Interpersonal Relationship| To establish mutually satisfying relationships and relate well with others.                                         |
| Stress Management       | Emotional management and regulation:                                                                                    |
| Stress Tolerance        | To effectively and constructively manage emotions.                                                                       |
| Impulse Control         | To effectively and constructively control emotions.                                                                     |
| Adaptability            | Change management:                                                                                                      |
| Reality-Testing         | To objectively validate one’s feelings and thinking with external reality.                                               |
| Flexibility             | To adapt and adjust one’s feelings and thinking to new situations.                                                      |
| Problem-Solving         | To effectively solve problems of a personal and interpersonal nature.                                                    |
| General Mood            | Self-motivation:                                                                                                       |
| Optimism                | To be positive and look at the brighter side of life.                                                                    |
| Happiness               | To feel content with oneself, others and life in general.                                                               |

### Table 2: EQ Scores and their Inference

| EQ Scores | Inference              |
|-----------|------------------------|
| 50-70     | Below Par              |
| 70-90     | Below Average          |
| 90-110    | Average                |
| 110-120   | Above Average (Good)   |
| 120-140   | Very Good              |
| Above 140 | Excellent              |
| Item No | Value of Corrected-Item Correlation |
|--------|----------------------------------|
| 1      | 0.304                            |
| 2      | 0.31                             |
| 3      | 0.364                            |
| 4      | 0.356                            |
| 5      | 0.361                            |
| 6      | 0.368                            |
| 7      | 0.315                            |
| 8      | 0.33                             |
| 9      | 0.26                             |
| 10     | 0.18                             |
| 11     | 0.316                            |
| 12     | 0.319                            |
| 13     | 0.318                            |
| 14     | 0.35                             |
| 15     | 0.52                             |
| 16     | 0.514                            |
| 17     | 0.45                             |
| 18     | 0.24                             |
| 19     | 0.524                            |
| 20     | 0.215                            |
| 21     | 0.15                             |
| 22     | 0.52                             |
| 23     | 0.56                             |
| 24     | 0.48                             |
| 25     | 0.47                             |
| 26     | 0.345                            |
| 27     | 0.63                             |
| 28     | 0.35                             |
| 29     | 0.336                            |
| 30     | 0.35                             |
| 31     | 0.58                             |
| 32     | 0.25                             |
| 33     | 0.304                            |
| 34     | 0.31                             |
| 35     | 0.364                            |
| 36     | 0.41                             |
Table 4: Discarded Item List

| Item No | Value of Corrected-Item Correlation |
|---------|-------------------------------------|
| 9, 10, 18, 20, 21, 32, 39, 41, 43, 47, 49, 51 |

Table 5: Retained Item List

| Item No | Value of Correlation |
|---------|----------------------|
| 46      | 0.364                |
| 48      | 0.329                |
| 50      | 0.31                 |
| 52      | 0.52                 |
| 53      | 0.56                 |
| 54      | 0.48                 |
| 55      | 0.47                 |
| 56      | 0.345                |
| 57      | 0.37                 |
| 58      | 0.35                 |
| 59      | 0.33                 |
| 60      | 0.31                 |
| 61      | 0.51                 |
| 62      | 0.31                 |
| 63      | 0.4                  |
| 64      | 0.38                 |
| 65      | 0.36                 |
| 66      | 0.34                 |
| 67      | 0.64                 |
| 68      | 0.6                  |
| 69      | 0.56                 |
| 70      | 0.52                 |
| 71      | 0.35                 |
| 72      | 0.32                 |
Table 6: Difference in Mean, SD and SEM of male subjects in Test-1 and Test-2

| Test   | Mean | SD  | SEM  | T-Test | Level of Sig |
|--------|------|-----|------|--------|--------------|
| Test-1 | 108  | 5.21| 2.35 | 13.01  | NS           |
| Test-1 | 109.6| 5.20| 2.15 |        |              |
| Test-2 | 102  | 8.99| 1.37 | 11.49  | NS           |
| Test-1 | 102  | 8.15| 1.15 | 9.67   | NS           |
| Test-2 | 101.6| 10.10| 0.35|        |              |
| Test-1 | 112  | 6.40| 0.13 | 13.17  | NS           |
| Test-2 | 110.9| 6.45| 0.15 |        |              |
| Test-1 | 104  | 8.17| 0.95 |        |              |
| Test-2 | 105.1| 8.07| 0.96 |        |              |
| Test-1 | 109  | 11.76| 0.45|        |              |
| Test-2 | 109.6| 10.86| 0.54|        |              |
| Test-1 | 121 | 6.69| 2.54 |        |              |
| Test-2 | 121.4| 7.15| 2.65 |        |              |
| Test-1 | 101  | 10.33| 1.84|        |              |
| Test-2 | 100.96| 11.15| 1.86|        |              |
| Test-1 | 116  | 8.14| 1.42 |        |              |
| Test-2 | 115.8| 7.96| 1.44 |        |              |
| Test-1 | 103  | 9.00| 2.06 |        |              |
| Test-2 | 102.8| 10.01| 2.05|        |              |
| Test-1 | 108  | 9.89| 2.59 |        |              |
| Test-2 | 107.5| 9.76| 2.49 |        |              |

Fig. 2 Difference in Mean of female subjects in Test-1 and Test-2

Table 7: Difference in Mean, SD and SEM of female subjects in Test-1 and Test-2

| Test   | Mean | SD  | SEM  | T-Test | Level of Sig |
|--------|------|-----|------|--------|--------------|
| Test-1 | 115  | 5.43| 0.82 | 16.71  | NS           |

Test-2 | 115.8 | 7.96 | 1.44 |        |              |

Test-1 | 103  | 9.00| 2.06 |        |              |
Test-2 | 102.8| 10.01| 2.05|        |              |
Test-1 | 108  | 9.89| 2.59 |        |              |
Test-2 | 107.5| 9.76| 2.49 |        |              |
|          | Test-2 |     |     |     |          | Test-1 |     |     |     |
|----------|--------|-----|-----|-----|----------|--------|-----|-----|-----|
| 11 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 116.5  | 5.12| 0.80|     | 16.56    | NS     |     |     |     |
| Test-1   | 102    | 11.00| 0.30|     | 13.77    | NS     |     |     |     |
| 12 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 99.5   | 10.56| 0.24|     | 11.28    | NS     |     |     |     |
| Test-1   | 100    | 11.90| 2.54|     | 9.59     | NS     |     |     |     |
| 13 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 104.9  | 9.56 | 1.05|     | 9.34     | NS     |     |     |     |
| Test-1   | 104    | 9.67 | 1.71|     | 8.00     | NS     |     |     |     |
| 14 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 116    | 10.09| 1.63|     | 12.33    | NS     |     |     |     |
| Test-1   | 115    | 10.00| 101.00|     | 11.99    | NS     |     |     |     |
| 15 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 114    | 4.92 | 1.06|     | 11.28    | NS     |     |     |     |
| Test-1   | 114.6  | 4.56 | 0.65|     | 9.80     | NS     |     |     |     |
| 16 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 121    | 10.47| 0.98|     | 15.24    | NS     |     |     |     |
| Test-1   | 119.86 | 10.58| 0.26|     | 11.99    | NS     |     |     |     |
| 17 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 109    | 5.02 | 1.90|     | 11.28    | NS     |     |     |     |
| Test-1   | 108    | 5.00 | 1.90|     | 9.59     | NS     |     |     |     |
| 18 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 114    | 7.78 | 0.99|     | 9.34     | NS     |     |     |     |
| Test-1   | 114.2  | 8.00 | 0.86|     | 8.00     | NS     |     |     |     |
| 19 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 118    | 5.37 | 0.59|     | 15.93    | NS     |     |     |     |
| Test-1   | 117.5  | 6.10 | 0.45|     | 11.28    | NS     |     |     |     |
| 20 Years |        |     |     |     |          |        |     |     |     |
| Test-2   | 101    | 4.48 | 1.64|     | 12.33    | NS     |     |     |     |
| Test-1   | 100.56 | 5.20 | 1.66|     | 9.59     | NS     |     |     |     |

Fig. 3 Difference in Mean of male subjects in Test-1 and Test-2

5. CONCLUSION

Shelling the nut, Results indicated that the scale is reliable and valid instrument in measuring emotional intelligence. Construct validity was supplemented by finding its relationship with peer rating and correlation was found to be moderately positive. The Scale is a promising measure with good items homogeneity, internal consistency and a meaningful pattern of validity. In recapitulation, the study came...
out with significant results as the correlation coefficient was found to be significantly high witnessing the high reliability and validity of the test.

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