

# UNFPA RESULTS

ANALYSED AND COMPILED BY DHARMENDRA & DISHA

(JNU)



April 03, 2009

### **Analysis plan**

- 1. Across each of the four indicators, the scores of participants, trainers and observers will be correlated.**
- 2. To compare participant's feedback from sessions that were directly observed with those that were not directly observed.**
- 3. Analysis of variance by comparing average scores for each of the four items across all the five agencies that facilitated the training programs.**
- 4. To determine venue and agency specific scores from participants feedback on the item no-9&17**

## Analysis 1: Correlation Results for Master Trainer, Participants and Observers by Different Indicators

**Table 1: Means of Observer, participants, trainers**

Categories of Stakeholders	A	B	C	D	Total
Participants (Observed)	4.03	4.23	4.03	4.03	4.08
Participants (Not Observed)	4.05	4.23	3.98	4.05	4.08
Master Trainer	3.79	4.38	4.25	3.83	4.06
Observer	3.46	3.38	3.54	3.38	3.44

**Table 2: Correlation coefficients between different categories of the Stakeholders**

Indicators	Master Trainers and Participants	Master Trainers and Observers	Observers and Participants
A	0.21	0.18	0.28
B	0.14	-0.07	0.25
C	0.17	-0.02	0.30
D	0.11	0.16	0.54

**Indicators Description:** A-Coverage of the content in the sessions according to session objectives, B-Integration of life skills in the activities during the session, C-Participation of trainees in the interactive process, D-Clarity among trainees in respect of transaction with students in schools

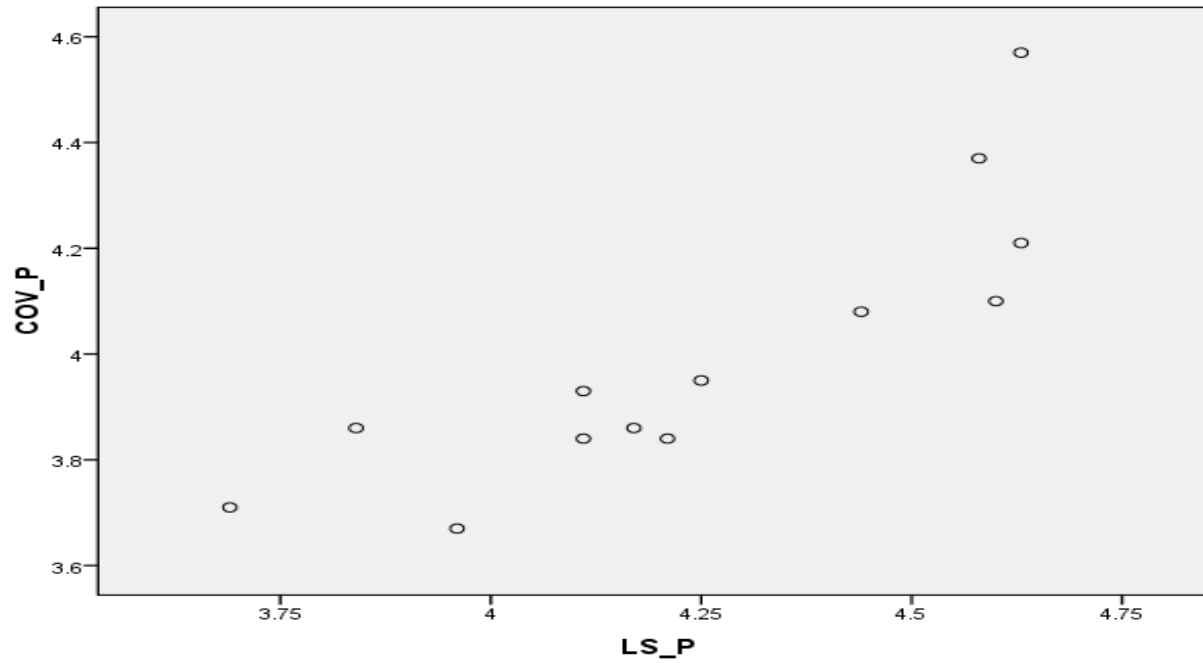
**Table 3: Correlation Matrix for master trainer, participants and observers by different indicators**

Correlation Matrix		Master Trainers				Participants				Observers			
		A	B	C	D	A	B	C	D	A	B	C	D
<b>Master Trainers</b> (N=24 )	<b>A</b>	1	.758**	-0.164	0.31	<b>0.214</b>	0.305	0.176	0.12	<b>0.175</b>	-0.057	0.083	0.474
	<b>B</b>		1	0.177	0.5	0.081	<b>0.141</b>	0.03	0.066	0.187	<b>-0.067</b>	-0.036	0.406
	<b>C</b>			1	0.18	0.139	0.233	<b>0.172</b>	0.371	0.018	-0.185	<b>-0.022</b>	0.056
	<b>D</b>				1	-0.109	0.081	-0.004	<b>0.114</b>	-0.038	-0.115	-0.152	<b>0.161</b>
<b>Participants</b> (N= 563)	<b>A</b>					1	.855**	.886**	.800**	<b>0.276</b>	0.24	0.093	.602*
	<b>B</b>						1	.777**	.806**	0.215	<b>0.246</b>	0.288	0.532
	<b>C</b>							1	.927**	0.545	0.442	<b>0.298</b>	.680*
	<b>D</b>								1	0.429	0.323	0.298	<b>0.538</b>
<b>Observers</b> (N=13 )	<b>A</b>									1	.737**	.703**	.813**
	<b>B</b>										1	.756**	0.541
	<b>C</b>											1	0.392
	<b>D</b>												1

\*\* Correlation is significant at the 0.01 level (2-tailed), \* Correlation is significant at the 0.05 level (2-tailed)

## Analysis 1(A): Scatter Diagram for depicting correlations

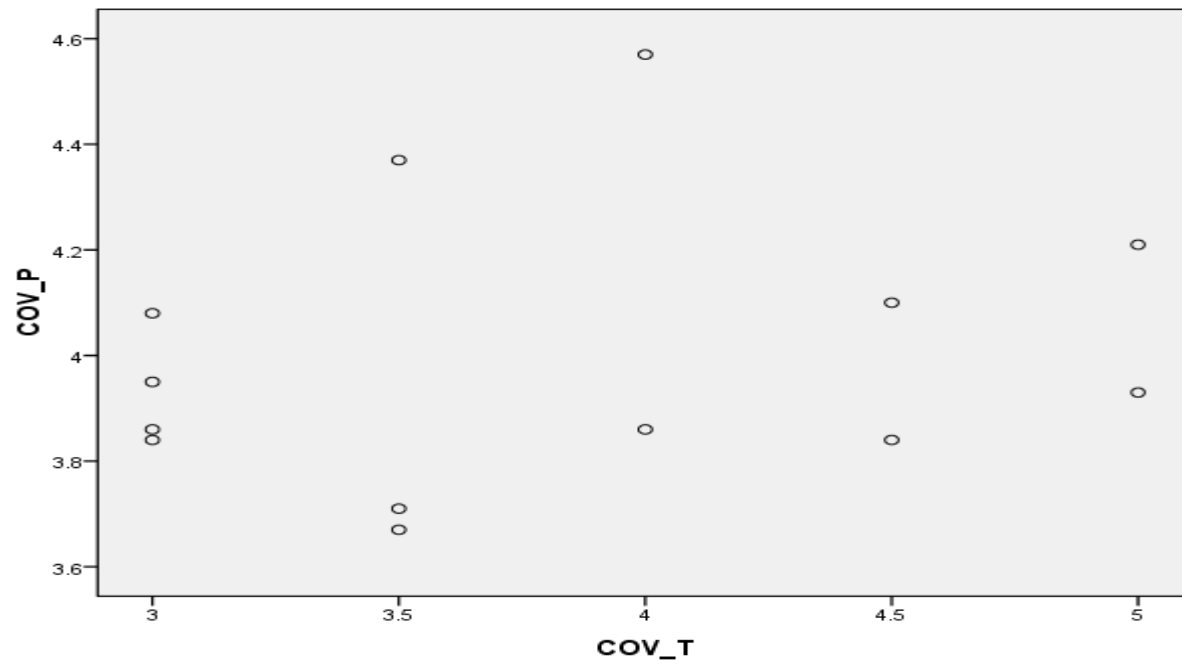
### 1. High correlation between indicators within stakeholder (Participants) (0.855\*\*)



Cov\_P= Coverage of the content in the sessions according to session objectives (Participants)

LS\_P= Integration of life skills in the activities during the session (Participants)

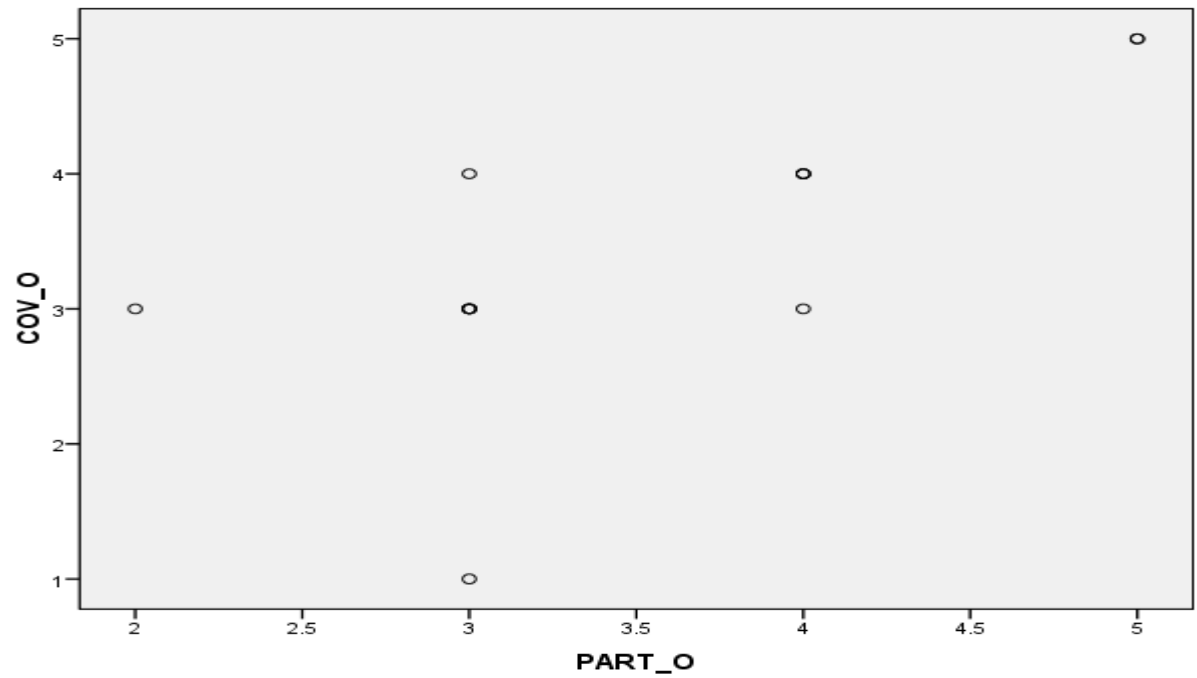
**2. Low correlation found between indicators across stakeholders ( Participants & Master Trainers)**



**COV\_P=Coverage of the content in the sessions according to session objectives (Participants)**

**COV\_T=Coverage of the content in the sessions according to session objectives (Master Trainers)**

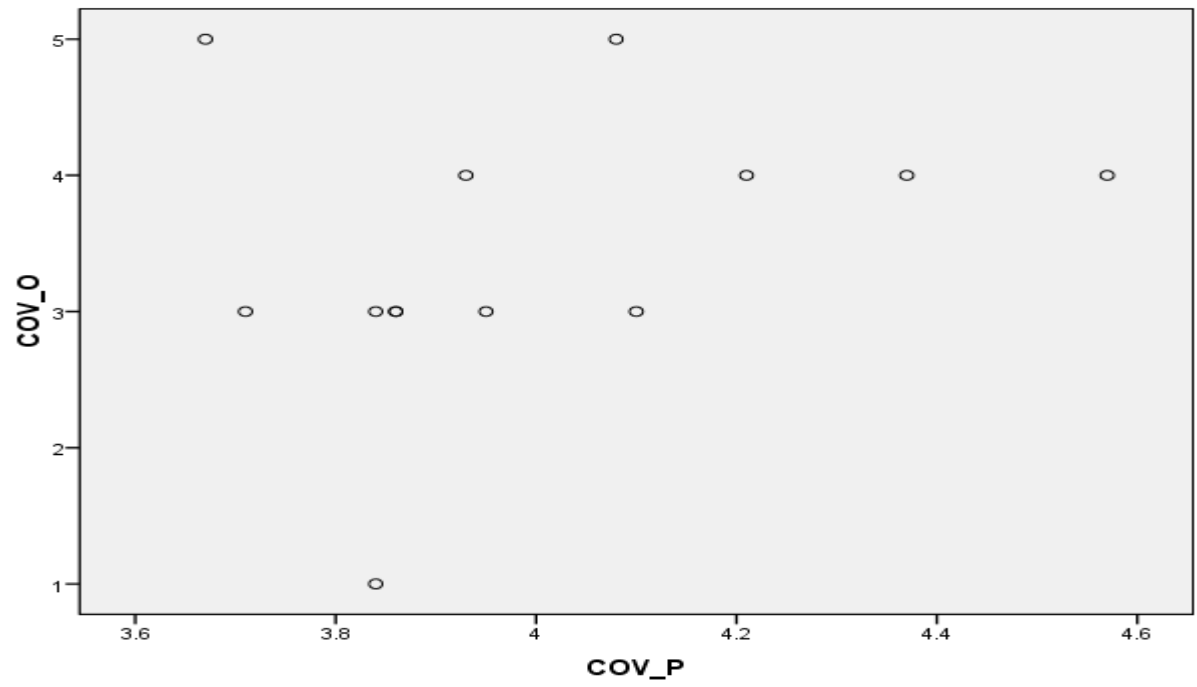
**3. High correlation between indicators within stakeholder (Observers) (0.703\*\*)**



**COV\_O= Coverage of the content in the sessions according to session objectives (Observers)**

**PART\_O= Participation of trainees in the interactive process (Observers)**

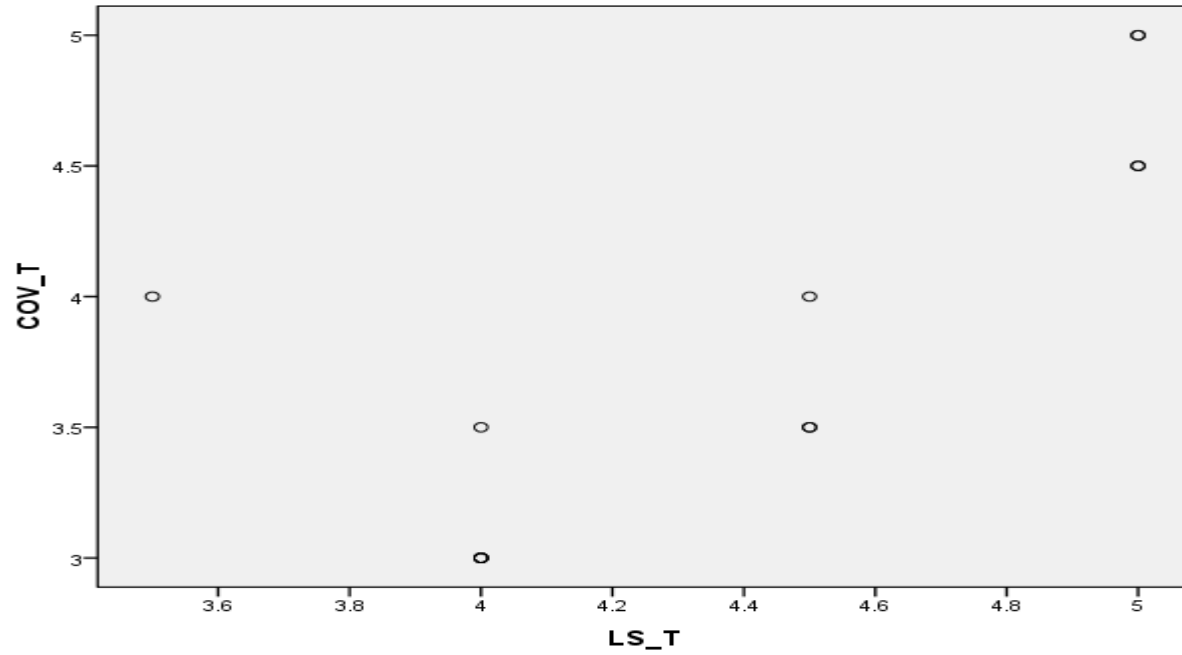
**4. Low Correlation between Observers and Participants for coverage of the content (0.276)**



**COV\_O=Coverage of the content in the sessions according to session objectives (Observers)**  
**COV\_P=Coverage of the content in the sessions according to session objectives (Participants)**



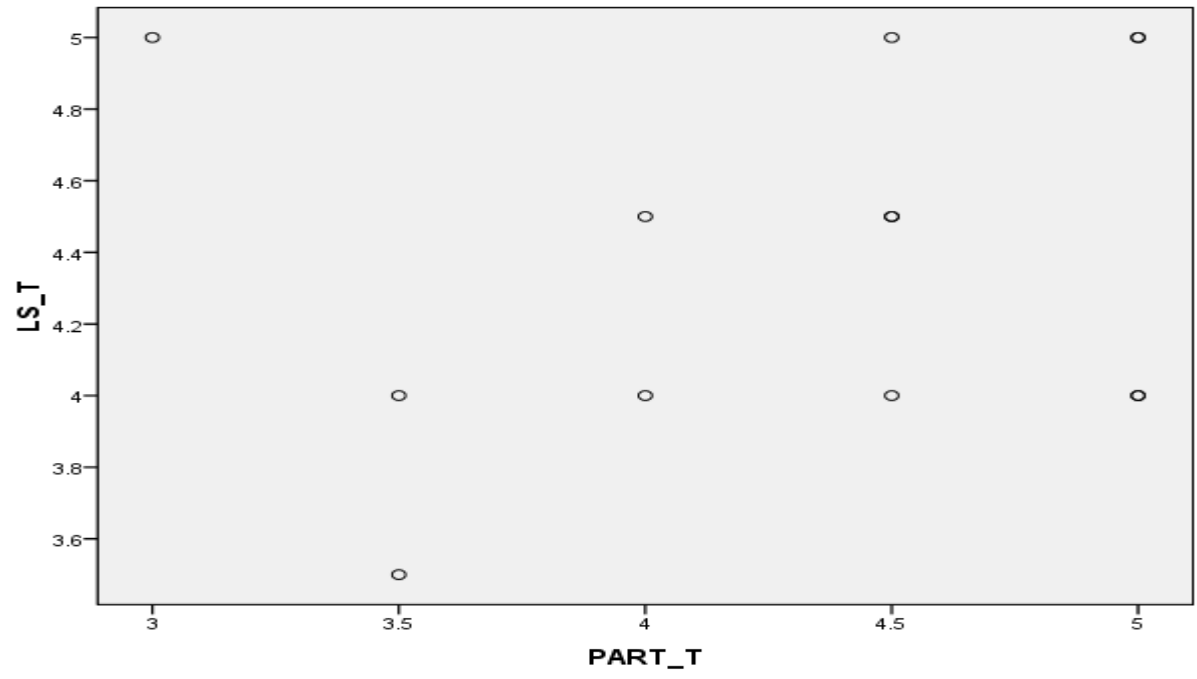
**5. High correlation between indicators for Master Trainer (0.758\*\*)**



**COV\_T=Coverage of the content in the sessions according to session objectives (Trainers)**

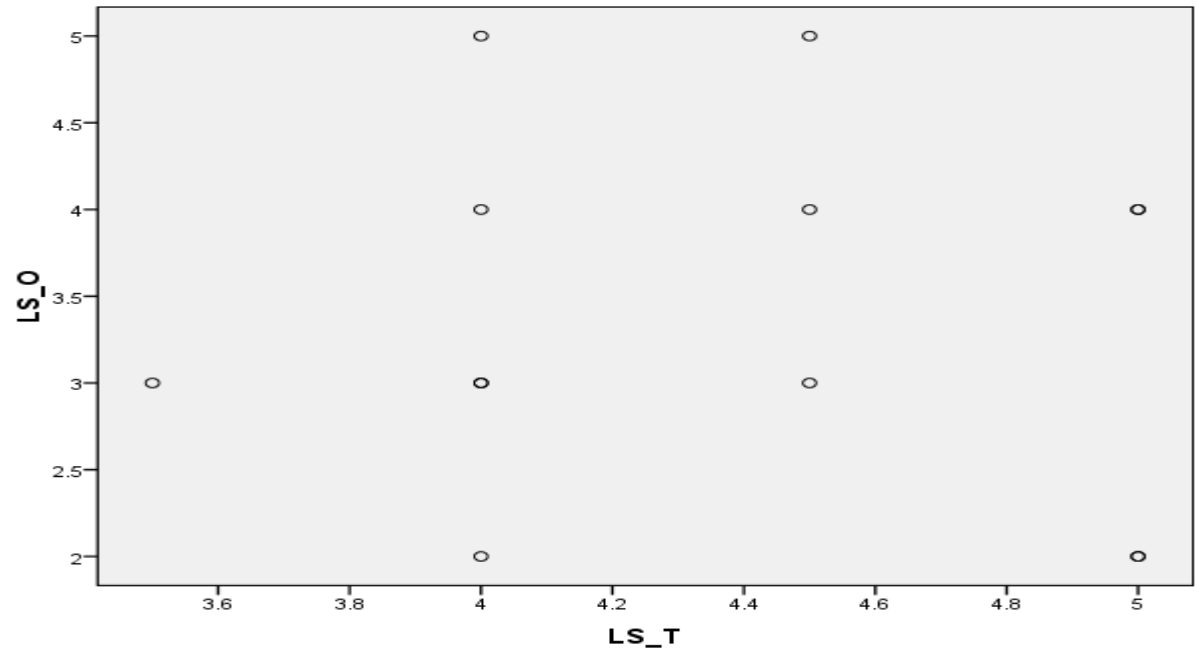
**LS\_T= Integration of life skills in the activities during the session (Trainers)**

**6. Low correlation between indicators for Master Trainer (0.177)**



**LS\_T= Integration of life skills in the activities during the session (Trainers)**  
**PART\_T=Participation of trainees in the interactive process (Trainers)**

**7. Very low Correlation between Master Trainer and Observer ( -0.067)**



**LS\_O= Integration of life skills in the activities during the session (Observers)**  
**LS\_T= Integration of life skills in the activities during the session (Trainers)**

### **Interpretation of the Results for Analysis 1:-**

None of the correlation results are significant across different kinds of stakeholders (i.e., between participants feedback and observers assessment and between trainers assessment). Therefore there is no consistency between the assessments of the various stakeholders. However, for same kind of stakeholders, indicators of different aspects of the program are strongly correlated, especially for participants followed by observers. For the feedback from Master Trainers, coverage of content and integration of the life skills are significantly positively related at one percent level. Similar results are obtained for participants' feedback as well. For the participants' feedback, the results are significant at one percent level between coverage of the content and participation of trainees in interactive process, and also for coverage of content and clarity among trainees for transacting activities among school activities.

Correlation results for the integration of life skills and participation of trainees in interactive process and integration of life skills with clarity among trainees for transacting activities among school activities for the Participants' feedback and observer feedback are also significant at one percent level of significance respectively. Thus the results of indicators of different aspects of the same program for a particular kind of stakeholder are highly correlated. This is because either there was a tendency of the stakeholders to rate the program good or poor without being very objective in their assessment or some aspects of the program were very good. Similar pattern of correlation is depicted pictorially through using scatter diagrams.

## Analysis 2: T- Test for Participants

**Table 4: Comparison of participants' feedback (observed and not observed) for different indicators**

### **t- Test for Participants feedback**

<b>Indicators</b>	<b>Observed Participants Mean</b>	<b>Not Observed Participants Mean</b>	<b>t</b>	<b>df</b>	<b>Sig.(2-tailed)</b>
<b>A</b>	4.0295	4.0530	-0.578	862	0.563
<b>B</b>	4.2283	4.2326	-0.084	1066	0.933
<b>C</b>	4.0310	3.9830	1.777	1034	0.240
<b>D</b>	4.0283	4.0487	-0.458	963	0.647

\*\* Significant at 0.01 level (2-tailed), \* Significant at the 0.05 level (2-tailed)

**Indicators Description: A-Coverage of the content in the sessions according to session objectives, B-Integration of life skills in the activities during the session, C-Participation of trainees in the interactive process, D-Clarity among trainees in respect of transaction with students in schools**

### **Interpretation of the Results for Analysis 2:-**

The t-test results between observed participants and unobserved participants at the training programs are not significant for various indicators. This means that there is no significant difference between the assessment of participants in observed sessions and unobserved sessions of coverage of the content, integration of the life skills in the activities, participation in the interactive process and clarity in respect to the process of transaction with students in school. Also the difference between the means of observed and unobserved participants does not differ much across indicators, only for the indicator “Participation of trainees in the interactive process,” the difference is the highest, around 0.048 but not significant. Thus the presence of the observer does not seem to have an effect on the participants performance for various indicators of the program.

### Analysis 3: ANOVA for participants' feedback on different Indicators by Agency

Table 5: Analysis of variance by comparing average scores for the four indicators across five agencies

Sessions		Sum of Squares	df	Mean Square	F	Sig.
<b>A</b>	<b>Between Groups</b>	25.94	4.00	6.48	19.69	0.00
	<b>Within Groups</b>	282.90	859.00	0.33		
	<b>Total</b>	308.83	863.00			
<b>B</b>	<b>Between Groups</b>	53.14	4.00	13.29	20.52	0.00
	<b>Within Groups</b>	688.20	1063.00	0.65		
	<b>Total</b>	741.34	1067.00			
<b>C</b>	<b>Between Groups</b>	25.86	4.00	6.47	15.15	0.00
	<b>Within Groups</b>	439.97	1031.00	0.43		
	<b>Total</b>	465.83	1035.00			
<b>D</b>	<b>Between Groups</b>	25.53	4.00	6.38	14.16	0.00
	<b>Within Groups</b>	432.88	960.00	0.45		
	<b>Total</b>	458.41	964.00			

\*\* Significant at 0.01 level (2-tailed), \* Significant at the 0.05 level (2-tailed)

Indicators Description: A-Coverage of the content in the sessions according to session objectives, B-Integration of life skills in the activities during the session, C-Participation of trainees in the interactive process, D-Clarity among trainees in respect of transaction with students in schools

### **Interpretation of the Results for Analysis 3:-**

The analysis of variance is done by comparing means of each of the four indicators across all the five agencies that facilitated the training program. The results are significant for all the four items at one percent level. This shows that agency has played a significant role in all the four indicators and there is a lot of variation across the groups. Thus the analysis provides information on the performance of agencies and shows that within the groups, the variation is very less, however, across the groups, the variation is very conspicuous.

**Analysis 4: To determine the venue mean scores from participants ‘feedback**

**Table 6: Venue Specific Mean Scores from Participants Feedback for item 9 and 17**

Venue code	Agency	Venue	Item 9	Item 17
2	NIS SPARTA	Surat	3.81	3.05
3*	NIS SPARTA	Kota	3.67	2.73
4*	NIS SPARTA	Baroda	4.17	3.68
5	NIS SPARTA	Indore	4.19	3.18
6*	NIS SPARTA	Raipur	4.08	3.14
7	NIS SPARTA	Jaisalmer	<b>4.65</b>	<b>4.12</b>
8	NIS SPARTA	Rajnandgaon	4.12	3.49
9	ENGENDER HEALTH	Kolkata	-	3.00
10*	ENGENDER HEALTH	Bhubneswar	4.21	3.42
11*	ENGENDER HEALTH	Meerut	3.87	3.49
12	ENGENDER HEALTH	Bareilly	4.02	3.55
17	IL & FS	Trivendrum	3.84	3.19
18	IL & FS	Vidisha 1	4.19	3.38
19	IL & FS	Vidisha 2	4.24	3.52
20*	IL & FS	Pune	4.33	3.89
21	IL & FS	Cochi	4.42	3.47
22*	IL & FS	Mysore	3.60	3.24
23	IL & FS	Kannur	4.15	3.14
24*	IL & FS	Calicut	3.27	3.45
25	RAMAN CONSULTANTS	Hissar	4.25	3.74
26*	RAMAN CONSULTANTS	Jammu	4.23	3.49
27*	RAMAN CONSULTANTS	Bilaspur	4.40	3.76
28*	RAMAN CONSULTANTS	Bhatinda	4.23	3.73
31	HEALTH VISION	Bokaro	3.89	3.47
32*	HEALTH VISION	Guwahati	3.85	3.38
33*	HEALTH VISION	Shillong	4.30	3.17
<b>Total</b>			4.09	3.40

\* Observed Venues ;(N) for Item No-9 = 959; (N) for item No-17= 1057;Item 9 - Gains from interaction with students, Item 17-Duration of training program



**Table 7: Venue wise mean scores of participants' feedback for all indicators (A, B, C & D)**

Venue code	Agency	Venue	A	B	C	D
2	NIS SPARTA	Surat	3.98	4.01	3.96	3.94
3	NIS SPARTA	Kota	3.71	3.69	3.78	3.73
4	NIS SPARTA	Baroda	4.08	4.44	4.25	4.30
5	NIS SPARTA	Indore	3.69	3.80	3.48	3.74
6	NIS SPARTA	Raipur	3.86	3.84	3.96	3.97
7	NIS SPARTA	Jaisalmer	<b>4.57</b>	4.73	4.38	<b>4.70</b>
8	NIS SPARTA	Rajnandgaon	4.03	3.97	3.87	3.81
9	ENGENDER HEALTH	Kolkata	-	3.27	-	-
10	ENGENDER HEALTH	Bhubneshwar	3.95	4.25	3.84	3.83
11	ENGENDER HEALTH	Meerut	3.85	4.21	3.79	3.82
12	ENGENDER HEALTH	Bareilly	4.23	4.40	3.97	4.12
17	IL & FS	Trivandrum	3.88	4.50	3.99	4.13
18	IL & FS	Vidisha 1	4.31	4.41	4.01	3.99
19	IL & FS	Vidisha 2	4.11	4.08	4.23	4.07
20	IL & FS	Pune	4.21	4.63	4.30	4.50
21	IL & FS	Cochi	4.14	4.48	4.19	4.25
22	IL & FS	Mysore	3.67	3.96	3.99	3.94
23	IL & FS	Kannur	4.12	<b>4.74</b>	3.99	4.22
24	IL & FS	Calicut	3.93	4.11	3.86	3.64
25	RAMAN CONSULTANTS	Hissar	4.30	4.33	4.37	4.30
26	RAMAN CONSULTANTS	Jammu	4.10	4.60	4.04	4.20
27	RAMAN CONSULTANTS	Bilaspur	4.56	4.64	<b>4.46</b>	4.35
28	RAMAN CONSULTANTS	Bhatinda	4.37	4.59	4.36	4.46
31	HEALTH VISION	Bokaro	3.51	3.61	3.67	3.64
32	HEALTH VISION	Guwahati	3.84	4.11	3.94	3.90
33	HEALTH VISION	Shillong	3.87	4.17	3.99	3.88
<b>Total</b>			4.04	4.23	4.01	4.04

**Table 8 (A and B): Agency Specific frequency distribution of the scores from Participants Feedback for item 9 and 17**

**Table 8 (A): Frequency Distribution of Participants by Agencies for Item No-9**

Agency	Scores					Total
	Unsatisfactory	Average	Good	Very Good	Excellent	
<b>NIS SPARTA</b>	0	11	65	<b>110</b>	<b>101</b>	287
<b>ENGENDER HEALTH</b>	0	8	30	60	53	151
<b>RAMAN CONSULTANT</b>	1	2	24	66	81	174
<b>HEALTH VISION</b>	0	1	26	40	26	93
<b>IL &amp; FS</b>	4	7	42	<b>114</b>	87	254
<b>TOTAL</b>	5	29	187	390	348	959

**Table 8 (B): Frequency Distribution of Participants by Agencies for Item No-17**

Agency	Scores					Total
	Unsatisfactory	Average	Good	Very Good	Excellent	
<b>NIS SPARTA</b>	24	39	<b>113</b>	84	39	299
<b>ENGENDER HEALTH</b>	1	21	65	47	25	159
<b>RAMAN CONSULTANT</b>	10	15	50	55	52	182
<b>HEALTH VISION</b>	2	13	38	32	10	95
<b>IL &amp; FS</b>	24	35	<b>113</b>	<b>98</b>	52	322
<b>TOTAL</b>	61	123	379	316	178	1057

Item 9 - Gains from interaction with students, Item 17-Duration of training program

**Table 8 (C): Agency Specific Mean Scores from Participants Feedback**

<b>Agency</b>		<b>Q9</b>	<b>Q17</b>
<b>NIS SPARTA</b>	<b>Mean</b>	4.05	3.25
	<b>N</b>	287	299
<b>ENGENDER HEALTH</b>	<b>Mean</b>	4.05	3.47
	<b>N</b>	151	159
<b>RAMAN CONSULTANTS</b>	<b>Mean</b>	<b>4.29</b>	3.68
	<b>N</b>	174	182
<b>HEALTH VISION</b>	<b>Mean</b>	3.98	3.37
	<b>N</b>	93	95
<b>IL&amp;FS</b>	<b>Mean</b>	4.07	3.37
	<b>N</b>	254	322
<b>Total</b>	<b>Mean</b>	4.09	3.40
	<b>N</b>	959	1057

(N) – Number of Participants

Item 9 - Gains from interaction with students, Item 17-Duration of training program

**Table 9: Agency wise Mean Scores of participants' feedback for all indicators (A, B, C & D)**

<b>Agency</b>		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>NIS SPARTA</b>	<b>Mean</b>	3.9475	3.9899	3.9023	3.9509
	<b>N</b>	253	298	290	270
<b>ENGENDER HEALTH</b>	<b>Mean</b>	4.0093	4.2112	3.8690	3.9178
	<b>N</b>	138	161	145	149
<b>RAMAN CONSULTANTS</b>	<b>Mean</b>	<b>4.3374</b>	<b>4.5440</b>	<b>4.3074</b>	<b>4.3235</b>
	<b>N</b>	163	182	180	170
<b>HEALTH VISION</b>	<b>Mean</b>	3.6996	3.8936	3.8244	3.7720
	<b>N</b>	78	94	93	91
<b>IL&amp;FS</b>	<b>Mean</b>	4.0683	4.3784	4.0488	4.0982
	<b>N</b>	232	333	328	285
<b>Total</b>	<b>Mean</b>	4.0410	4.2303	4.0074	4.0381
	<b>N</b>	864	1068	1036	965

**Indicators Description: A-Coverage of the content in the sessions according to session objectives, B-Integration of life skills in the activities during the session, C-Participation of trainees in the interactive process, D-Clarity among trainees in respect of transaction with students in schools**

## Background Information

### Means of the participants for all programs

Indicators	Tag	N	Mean	Std. Deviation	Std. Error Mean
Q1	OBSERVED	563	4.02	0.98	0.041
	NOT OBSERVED	532	3.85	1.055	0.046
Q2	OBSERVED	548	3.92	0.847	0.036
	NOT OBSERVED	516	3.85	0.878	0.039
Q3	OBSERVED	552	4.23	0.819	0.035
	NOT OBSERVED	516	4.23	0.85	0.037
Q4	OBSERVED	554	4	0.852	0.036
	NOT OBSERVED	524	3.97	0.844	0.037
Q5	OBSERVED	555	4.07	0.84	0.036
	NOT OBSERVED	512	4.05	0.846	0.037
Q6	OBSERVED	559	4	0.918	0.039
	NOT OBSERVED	505	4.04	0.927	0.041
Q7	OBSERVED	548	3.89	0.868	0.037
	NOT OBSERVED	504	3.98	0.919	0.041
Q8	OBSERVED	541	4.02	0.859	0.037
	NOT OBSERVED	502	4.24	0.813	0.036
Q9	OBSERVED	490	4.06	0.883	0.04
	NOT OBSERVED	469	4.13	0.808	0.037
Q10	OBSERVED	547	4.12	0.858	0.037
	NOT OBSERVED	507	4.11	0.869	0.039

## Means of the participants for all programs

Indicators	Tag	N	Mean	Std. Deviation	Std. Error Mean
Q11	OBSERVED	551	4.22	0.829	0.035
	NOT OBSERVED	510	4.22	0.872	0.039
Q12	OBSERVED	548	4.01	0.826	0.035
	NOT OBSERVED	511	4	0.809	0.036
Q13	OBSERVED	550	4.04	0.89	0.038
	NOT OBSERVED	506	4.05	0.874	0.039
Q14	OBSERVED	533	3.93	0.861	0.037
	NOT OBSERVED	496	3.99	0.809	0.036
Q15	OBSERVED	530	3.82	0.905	0.039
	NOT OBSERVED	488	3.87	0.897	0.041
Q16	OBSERVED	541	3.95	0.955	0.041
	NOT OBSERVED	516	3.91	1.012	0.045
Q17	OBSERVED	553	3.41	1.059	0.045
	NOT OBSERVED	504	3.4	1.095	0.049
Q18	OBSERVED	551	3.91	0.96	0.041
	NOT OBSERVED	516	3.94	0.985	0.043
Q19	OBSERVED	559	4.09	1	0.042
	NOT OBSERVED	522	4.18	0.911	0.04
Q20	OBSERVED	560	4.06	0.983	0.042
	NOT OBSERVED	528	3.98	1.028	0.045
COVERAGE	OBSERVED	441	4.0295	0.60249	0.02869
	NOT OBSERVED	423	4.053	0.59419	0.02889
LIFESKILLS	OBSERVED	552	4.2283	0.81861	0.03484
	NOT OBSERVED	516	4.2326	0.85001	0.03742
PART_TRAIN	OBSERVED	537	4.031	0.67214	0.029
	NOT OBSERVED	499	3.982	0.66926	0.02996
CLARITY_TRAIN	OBSERVED	503	4.0283	0.71084	0.03169
	NOT OBSERVED	462	4.0487	0.66628	0.031

