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# Analysing & Evaluating the Psychometric Profile of Government School Students Studying in 9th to 12th Standard at GSSS Nilokheri, Haryana Using the Brain Checker Psychometric Test

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Abstract—Psychometric Tests are include a set of assessments and tests which collectively form a battery, used in various psychological evaluations. There are several types of Psychometric Tests developed for academic and institutional purposes each designed with a specific purpose in mind and targeted towards a specific set of audiences. Brain Checker Psychometric Test is an advanced version of the Caliber Intelligence Quotient Test offered by Brain Checker and was implemented at the GSSS Nilokheri, located at Karnal, Haryana as per the directive of the State Government of Haryana assigned in writing by the Directorate of School Education for 534 students studying in 9th to 12th standard for assessing their Intelligence, Personality, Occupational Predispositions and Career Suitability.

Index Terms—Psychometric Test, CIQT, Brain Checker, Occupational Codes, Personality Assessment, Jungian Theory, Holland Theory, Intelligence Score, Career Assessment

# I. INTRODUCTION

Psychological Battery is a term used for a varied mix of tests which are collectively implemented for a specific purpose or for evaluation of specific skills. One of the most important forms of a Psychological Battery is a Psychometric Test. Introduced first in 1911, by Dr. Alfred Binet from France; Psychometric Tests today are widely used as an extremely useful Psychoanalytical Tool.

Psychometric Tests are designed for various purposes and are generally suitable for the purpose with which they are designed. While Corporates use Psychometric Tests to evaluate a fitment of a new recruit in their company whereas Schools use it for understand the intelligence, personality and occupational predispositions of a student.

Brain Checker is India's Largest Career Counseling Company Co-Founded by Psychologists and Experts in the field of education. The Company offers various tests, assessments, interventions and brain development programs across India for students to help analyse their strengths, weaknesses, focus areas, shortcomings, and career trajectory and develop their academic skills, cognitive skills and understanding about their own career plan amongst others. The products offered are catering students aged 3+ going all the way up to the age of 21.

The State Government of Haryana through its Directorate of School Education wanted to implement a customised Psychometric Test on its students for which a pilot project was assigned to Brain Checker at the Government School located at Karnal, Nilokheri namely GSSS Nilokheri wherein 534 students were to attempt the newly designed Brain Checker Psychometric Test.

LDR Haryana was the Authorised Partner who was responsible for administering, execution and implementation of the Brain Checker Psychometric Test at GSSS Nilokheri and providing counselling services to the students undergoing the test. This team was headed by Mr. Sandip Kapil & Mrs. Priyanki Kapil, Authorised Partner's, Brain Checker for Karnal, Haryana.

#### II. TARGET SEGMENT AND METHOD

GSSS Nilokheri located at Karnal Haryana is a Government School having 534 students studying in the 9th to 12th standard classes. The system based Brain Checker Psychometric Test was implemented at the school using outsourced laptops in the auditorium of the school in batch sizes of 20 students a at time. A Pre-Session Orientation, in total 8 sessions were conducted before implementation of the assessment to make the students aware about the modalities and structure of the test.

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# III. STATISTICAL RESULTS

It was generally witnessed that as compared to the girls there were lesser number of boys scoring the lowest possible scores within the Average Category of 90-91-92 IQ Scoring range. In total 137 girls were classified in this category as compared to 124 boys having similar scores. These students who were categorized in this section were informed that they would need extensive hard work and would have to double up their efforts in order to do well in their respective careers. Most of the parents of these students also agreed that there was a need for additional efforts on the part of their ward to succeed in their respective lives and to choose their preferred careers after their 12th standard. The CIQT Advanced was a blessing in disguise for these students and their parents who now have an action plan to work upon in order to ensure that their child has a successful working life ahead.

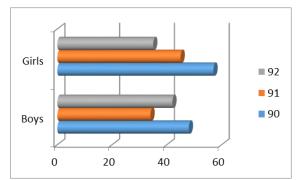


Fig. 1. Graph-1 (Low Performers of the Group Scoring 90, 91 or 92 IQ Score)

While on the other hand it was observed that, In all around 4% students were able to do quite well in the CIQT Advanced Test. Their own efforts coupled with their genuine hard work and focus towards attempting this test with all seriousness and sincerity helped them score more than 110 in their test. With around 13 boys and 7 girls falling in this category in the entire school, these are truly remarkable students who have been recommended careers like Medical, Engineering and Architecture amongst others.

Around 25% of the world's population would fall in this category. Considering that the Average IQ of an Indian is around 82, these students have not only managed to beat the score but also match the IQ score of students from developed countries like Singapore.

TABLE I (COUNTRY WISE CLASSIFICATION OF INTELLIGENT COUNTRIES 2018)

S. No.	Country	World Rank	Average IQ Score
1	Singapore	1	108
2	South Korea	2	106
3	Japan	3	103
4	Italy	4	102
5	Iceland	5-1	101
6	Mongolia	5-2	101
7	India	25	82

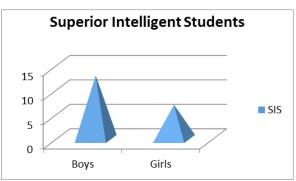


Fig. 2. Graph-2 (Superior Intelligent Scoring 110-119 IQ Score)

On a Nation-to-Nation Comparative, the Average Intelligence score of citizens of some the countries are ranked in Table-1, for our understanding:

Considering the above comparative, it can be derived that India's Average IQ is below par and can be categorized into Below Average IQ, whereas the Standard IQ Range worldwide is 90-108 to be treated as normal or average IQ. On the positive Side, 100% students of GSSS Nilokheri were above the national average of 82.

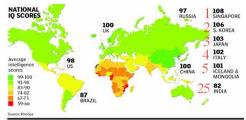


Fig. 3. Country wise classification of intelligent countries 2018

Around 14% students were able to score more than 100 IQ Score. This group comprised of 48 Boys and 31 Girls in total. These students were students who could be terms as the students with higher academic potential in the school.

It is important to mention here that in the overall analysis, it has been observed that Boys have outperformed girls on almost all parameters. While the girls scoring the lowest marks are higher than the boys, the boys also scored more than the girls in the 100+ IQ Score Segment.

There is an increased need to provide special focus on the education of the girl child in the State of Haryana.

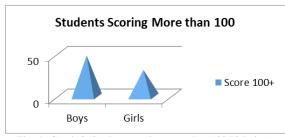


Fig. 4. Graph-3 (Students scoring more than 100 IQ Points)

All the 534 Students were also put through the Jungian



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Personality Assessment to categorize them in the 16 Jungian Personalities. It was observed as under:

- 63% were Extroverts and 37% were Introverts
- Around 80% were Sensing and 20% Intuitive
- While 36% were Thinkers 64% were Feelers
- 82% were Judging while only 18% were Perceiving

These are remarkable findings and gives us an understanding of the society that we live in and how the future generation is getting shaped.

# IV. INTERACTIVE FEEDBACK

While counseling was provided primarily in groups for parents and students alike, some feedbacks were tabulated from the parents as under:

- Out of the 534 Students, 412 Parents were able to provide their feedback during the counseling session.
- Around 78% of the Feedbacks were from Mothers whereas the remaining 22% were from Fathers
- Out of the 412 Feedbacks documented, 100% Parents felt the need for a Career Assessment Module like CIQT advanced
- 86% Parents felt that they now have a better understanding of their child's skills and capabilities
- 93% Parents Appreciated the Government for taking positive steps towards shaping the careers of their kids
- 97% Parents felt that the School Curriculum needs to be improved to help students have a better understanding of things around them

A short survey was also executed on the 49 Teachers of the School, with the following outcome:

- 100% Teachers appreciated the Government's Initiate to allow Brain Checker to conduct a Pilot for the Brain Checker Psychometric Test
- 92% Teachers felt that they can now help kids prepare for their own future in a better fashion
- 87% Teachers requested for more Counseling Related Training Sessions to be conducted for them at School Level to enhance their Child Psychology related knowledge and to help them deal with kids in a better fashion

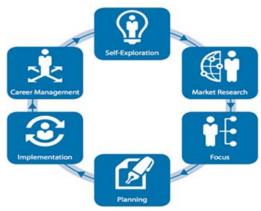


Fig. 5. Developing a personal career strategy (PCS)

Collectively both the parents and teachers agreed that Brain Checker Psychometric Test was a potent tool to help their kids/students prepare a personal career strategy.

It is pertinent to point it out here that the schooling system in developed countries like America, Japan, and Germany amongst others have a robust counseling, assessment and intervention model in place to assist students plan their careers. In fact in some of the cases, the government provides subsidies to private competent programs which are aimed at augmenting the overall intelligence of the child or which are designed to help a child combat issues pertaining to academic excellence.

# V. SUGGESTIVE RECOMMENDATIONS

The entire exercise to conduct, execute and counsel around 534 Students at GSSS Nilokheri, Haryana as per the directives of the Shiksha Sadan and the State Government of Haryana have resulted in huge positive impact in the overall career planning of the students who underwent the CIQT Advanced at GSSS Nilokheri as well as have a long term positive impact in the minds of the parents of the students who underwent the test.

TABLE II
OVERALL LEARNINGS & RECOMMENDATIONS

OVERALL LEARNINGS & RECOMMENDATIONS			
Achievements	Career Assessment Test To Be Conducted		
&	On Omr Sheets Instead Of		
Challenges	Computer/Laptop For Speedy		
	Implementation Of The Project		
	2. Conducting Tests On Omr Would Resolve:		
	A. Logistics Issues		
	B. Speed Of Implementation Of The		
	Project		
	C. Avoids Dependency Of		
	System/Computer		
	<ul> <li>D. Will Improve Student Results</li> </ul>		
	3. Students Should Have Additional		
	Computer Exposure At School Level To		
	Increase Their Level Of Confidence And		
	Expertise		
4. Regular Counseling Sessions Need			
	Conducted At School Level For Students		
	To Have A Evolved Emotional		
	Development Of The Student In General		
	5. Students Should Avoid Mugging Up And		
	Focus On Learning And Understanding The		
	Concepts Rather Than Simply Trying To		
	Mug Up The Theory With An Objective Of		
	Scoring More Marks		
	6. More Focus Needs To Be Provided From		
	The Teachers, Management And The		
	Government In Designing Educational		
	Models Which Are More Learner Centric		
	Rather Than Mark Centric		
	7. Students Need Practical Exposure To		
	Technology And Orientation Information Of Different Careers Needs To Be Made		
	Available To Them From Standard 7th		
	Itself.		
	8. Higher Focus Is Required In Dealing With		
	Students From Foundation Ages That Is		
	From Standard 1st Itself So That These		
	Students Get The Necessary Exposure At		
	The Right Time		
	THE RIGHT THE		

There are certain learning's both for us as a Professional



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Career Counseling Company as well as for the school, education departmental handing school education and the government in general. Some of the key suggestions are enlisted as under for mutual consideration in anticipation of the allotment of the complete project to Brain Checker & LDR Haryana.

The entire exercise was sub-divided into 5 phases:

- 1. Pre-Testing Phase
- 2. Testing Phase
- 3. Report Generation & Analysis Phase
- 4. Report Delivery Phase
- 5. Counseling Phase

The Table-2 shows the key recommendations, learning's and achievements from the entire project.

# VI. CONCLUSION

While the Government of Haryana has been remarkably ahead in taking the first to implement a complete battery of psychometric test on the students studying in government schools by implementing the Brain Checker Psychometric Test, there is immense need to take long term corrective action as pointed out in this research paper largely for the pre-teens who are currently a part of the schooling system in the state. Academic Teaching methods need dynamic upgrade to ensure that our students are capable of handing the needs of the future and regular counseling and intervention is extremely critical to help the student prepare a proper career strategy for ensuring success.

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