



NOTATIONAL ANALYSIS OF PLAYING ABILITY ON WOMEN SOCCER TEAMS

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Abstract

The purpose of the study was to notational analysis of women football players. To achieve the purpose of the study the top four teams those who participated in the Bharathidasan University Inter-Collegiate Football Tournament 2014-15 for Women held at Bishop Heber College, Tiruchirappalli, Tamilnadu were only selected. The teams were Bishop Heber College, Tiruchirappalli, Government Arts College, Kumbakonam, Shrimati Indira Gandhi College, Tiruchirappalli and H.H. The Rajah's College, Pudukkottai. The age of the women football players ranged from 18 to 25 years. In match analysis system the statistical, technical and tactical aspects of Football has to be given due importance. In order to finalize the factors which are closely associated with Football performance a survey was done. It was conducted among Coaches, Physical Educators, Players and officials each using questionnaire method. After getting various inputs from experts & literature, the investigator considering the feasibility, time factor, availability of equipments / facilities and the survey results, match analysing factors were finalized. Totally the 18 following match analysing factors which is expected to give the complete performance of the team & individual and 8 factors were finalized. It was found that the Bishop heber college found better in all the selected factors except cards received by the team. And Shrimati Indira Gandhi College, Tiruchirappalli found better in less rds received by the team.

Key Words: Notational Analysis, Football, Women, Soccer.

Introduction

Over the last two decades, there has been a growing interest in match analysis of soccer. The practical value of such analyses is that well chosen performance indicators can help coaches to identify good and bad performances of individuals or teams. Performance analysis plays a key role in sports coaching. Normally, the researchers focus mostly on men's performance and show meagre interest on women performance. Since, the investigator, being a woman Football Player, Coach, Official and Physical Educator was motivated to develop and notational analysis system for analysing football matches. Moreover, only limited number of researches had been done on the game Football and lack of using software motivated the investigator to take-up the study.

Match analysis has been helpful in identifying the key factors of the sport, and in examining how a particular player compares to the needs of his event. Soccer is much more than a game, played by two teams with eleven players each, who attempt to score at least one more goal than the opposition within 90 minutes to win the game. It is one of the most popular sports in the world, which attracts millions of spectators into the stadiums every weekend worldwide. Researchers from different scientific disciplines e.g. sport science, medicine, sociology and psychology as well as economics and many more, attempt to analyse different

facets of the game. Although post match analysis is only one aspect within the entire field of possible football related applications it is certainly a crucial one. As in other sports disciplines, game analyses are very important for game preparation. Not only do football teams need to evaluate teamwork and each player's individual performance, but also tactics, performance analysis and scouting are potential fields of application. Game analysis is providing professional teams with another useful planning and tactical tool, in order to maximise their performance (Hughes, 2003).

Methodology

The purpose of the study was to notational analysis of women football players. To achieve the purpose of the study the top four teams those who participated in the Bharathidasan University Inter-Collegiate Football Tournament 2014-15 for Women held at Bishop Heber College, Tiruchirappalli, Tamilnadu were only selected. The teams were Bishop Heber College, Tiruchirappalli, Government Arts College, Kumbakonam, Shrimati Indira Gandhi College, Tiruchirappalli and H.H. The Rajah's College, Pudukkottai. The age of the women football players ranged from 18 to 25 years. In match analysis system the statistical, technical and tactical aspects of Football has to be given due importance. In order to finalize the factors which are closely associated with Football

performance a survey was done. It was conducted among Coaches, Physical Educators, Players and officials each using questionnaire method. After getting various inputs from experts & literature, the investigator considering the feasibility, time factor, availability of equipments / facilities and the survey results, match analysing factors were finalized. Totally the 18 following match analysing factors which is expected to give the complete performance of the team & individual and 8 factors were finalized.

2. Total Number of shot at goal by each team
3. Total Number of passes by each team
4. Total Number of off side
5. Total Number of cards received by each team
6. Total Number of goal kick by each team
7. Total Number of corner kicks by each team
8. Ball Possession

1. Total goals scored by each team

Results and Discussion

The following tables illustrate the mean, standard deviation and percentage analysis of women football players for all the four teams.

Table I. Total goals scored by each team (in Percentage)

| Sl.No | BHC | GCK | SIGC | Rajah's |
|-------|---------|---------|----------|----------|
| 1 | 3 (75%) | 1 (25%) | 0 (0.00) | 0 (0.00) |

It was found from the table for total goals scored by each team the Bishop heber college has 75.00% followed by Government Arts College for

Women, Kumbakonam of 25%. It shows that the Bishop heber college is higher than the other colleges.

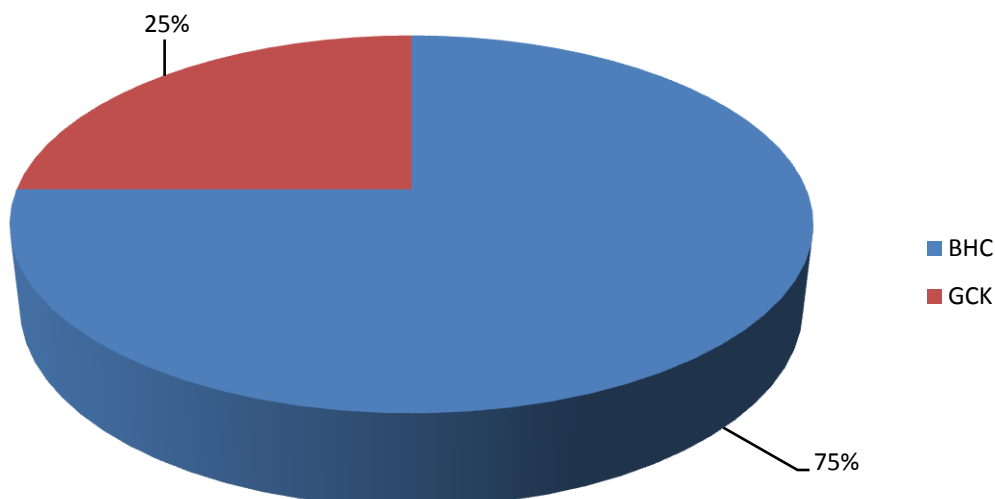


Figure I. Pie Diagram Shows the Percentage Level of Total goals scored by each team

Table II. Total Number of shot at goal by each team (in Percentage)

| Sl.No | BHC | GCK | SIGC | Rajah's |
|-------|----------|---------|---------|---------|
| 1 | 19 (45%) | 9 (21%) | 7 (17%) | 7 (17%) |

It was found from the table for total number of shot at goal by each team the Bishop heber college has 45.00% followed by Government Arts College for Women, Kumbakonam of 21%, Shrimati Indira College

of 17% and H.H. The Rajah's College of 17%. It shows that the Bishop heber college is higher than the other colleges.

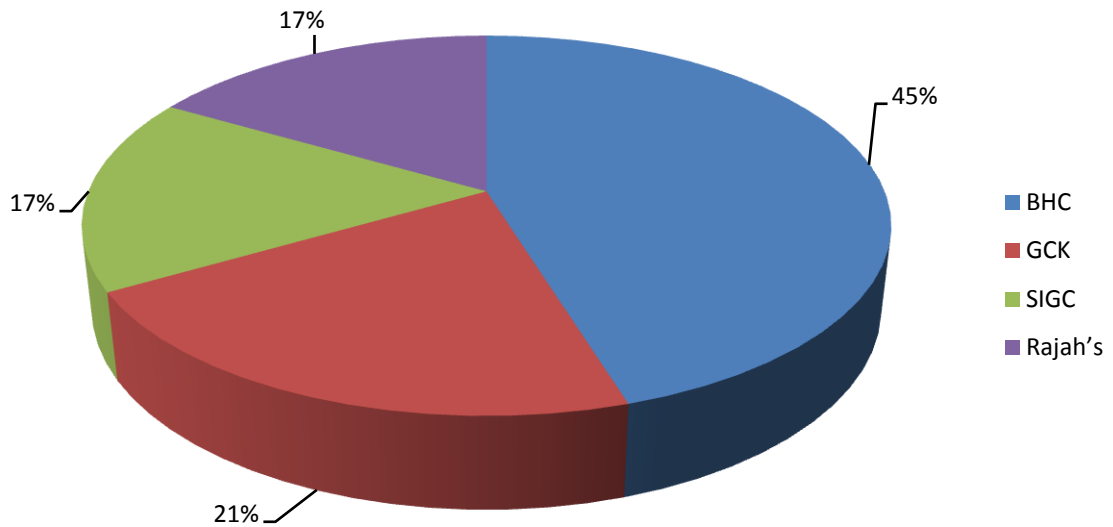


Figure II. Pie Diagram Shows the Percentage Level of Total Number of shot at goal by each team

Table III. Total Number of passes by each team (in Percentage)

| Sl.No | BHC | GCK | SIGC | Rajah's |
|-------|--------|--------|--------|---------|
| 1 | 69 (%) | 55 (%) | 27 (%) | 40 (%) |

It was found from the table for total number of passess by each team the Bishop heber college had 36.00% followed by Government Arts College for Women, Kumbakonam of 29%, Shrimati Indira College

of 14% and H.H. The Rajah's College of 21%. It shows that the Bishop heber college is higher than the other colleges.

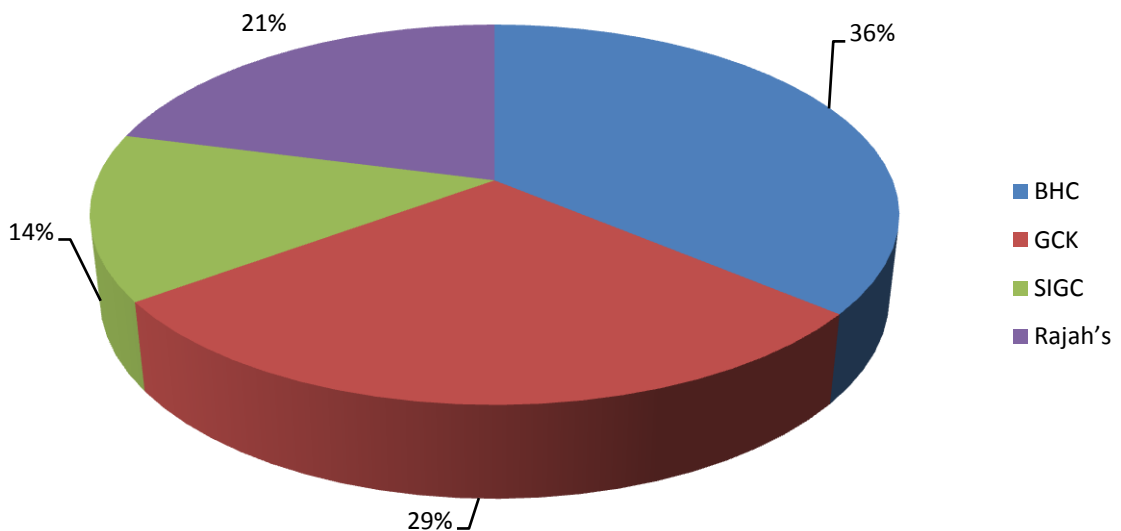


Figure III. Pie Diagram Shows the Percentage Level of Total Number of passes by each team

Table IV. Total Number of off side (in Percentage)

| Sl.No | BHC | GCK | SIGC | Rajah's |
|-------|--------|--------|--------|---------|
| 1 | 23 (%) | 24 (%) | 11 (%) | 13 (%) |

It was found from the table for total number of off side the Government Arts College for Women, Kumbakonam has 34.00% Bishop heber college followed by of 32%, Shrimati Indira College of 16% and

H.H. The Rajah's College of 18%. It shows that the Government Arts College for Women, Kumbakonam is higher than the other colleges.

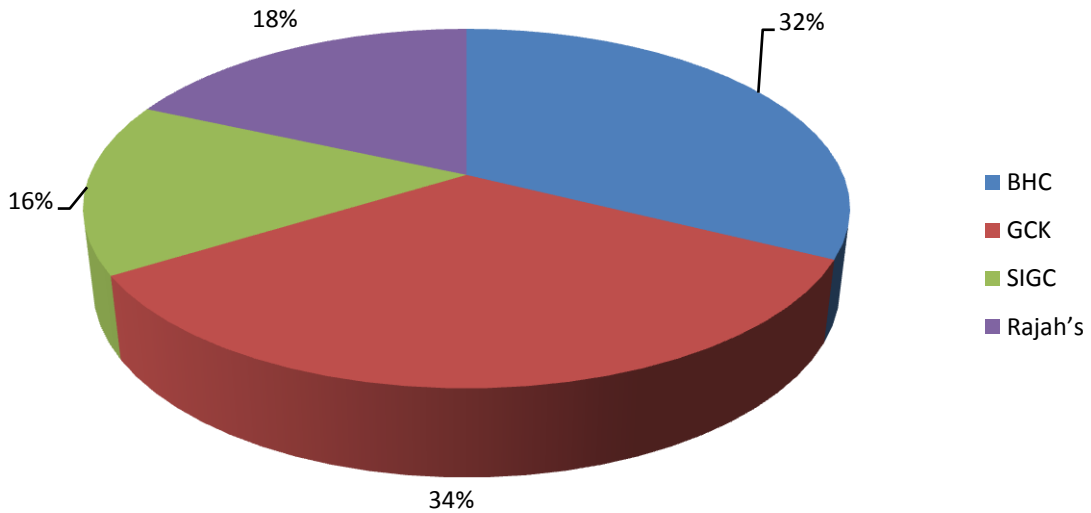


Figure IV. Pie Diagram Shows the Percentage Level of Total Number of off side

Table V. Total Number of free kicks by each team (in Percentage)

| Sl.No | BHC | GCK | SIGC | Rajah's |
|-------|---------|---------|---------|---------|
| 1 | 3 (34%) | 3 (33%) | 1 (11%) | 2 (22%) |

It was found from the table for total number of free kicks by each team the Bishop heber college has 34.00% followed by Government Arts College for Women, Kumbakonam of 33%, H.H. The Rajah's

College of 22% and Shrimati Indira College of 11%. It shows that the Bishop heber college is higher than the other colleges.

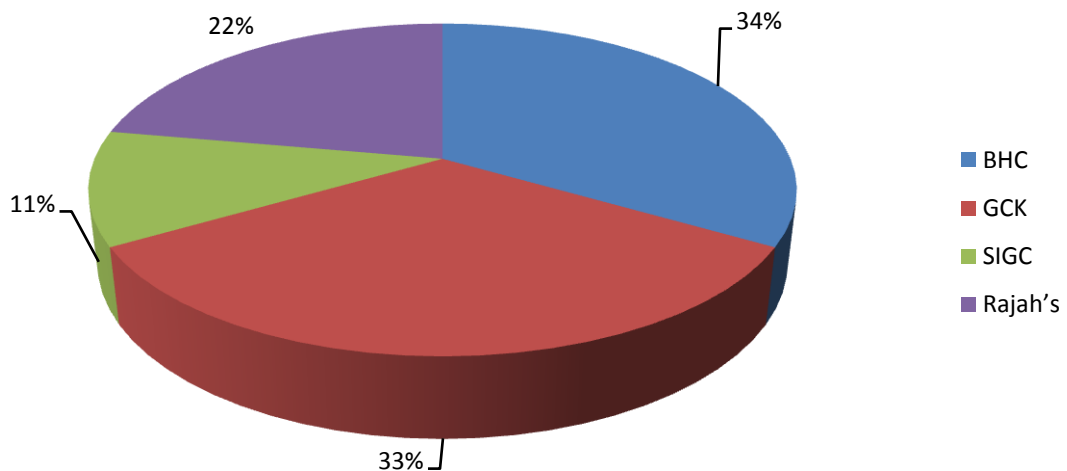


Figure V. Pie Diagram Shows the Percentage Level of Total Number of free kicks by each team

Table VI. Total Number of cards received by each team (in Percentage)

| Sl.No | BHC | GCK | SIGC | Rajah's |
|-------|----------|----------|----------|----------|
| 1 | 43 (33%) | 45 (34%) | 19 (25%) | 24 (18%) |

It was found from the table for total number of cards received by each team the Government Arts College for Women, Kumbakonam has 34.00% followed by Bishop heber college of 33%, H.H. The Rajah's

College of 18% and Shrimati Indira College of 15%. It shows that the Shrimati Indira College is better than the other colleges.

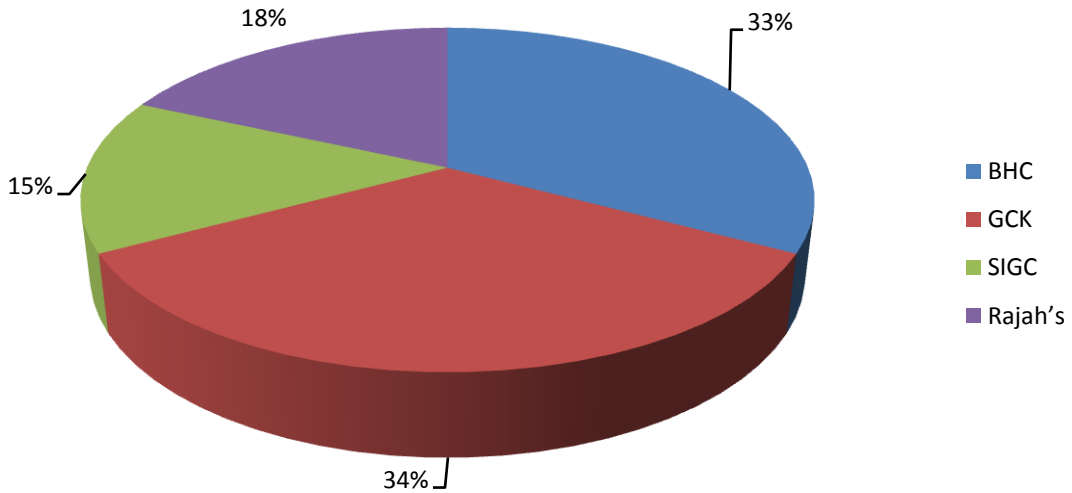


Figure VI. Pie Diagram Shows the Percentage Level of Total Number of cards received by each team

Table VII. Total Number of goal kick by each team (in Percentage)

| Sl.No | BHC | GCK | SIGC | Rajah's |
|-------|----------|----------|---------|----------|
| 1 | 24 (39%) | 19 (31%) | 7 (12%) | 11 (18%) |

It was found from the table for total number of goal kick by each team the Bishop heber college has 39.00% followed by Government Arts College for Women, Kumbakonam of 31%, H.H. The Rajah's

College of 18% and Shrimati Indira College of 12%. It shows that the Bishop heber college is higher than the other colleges.

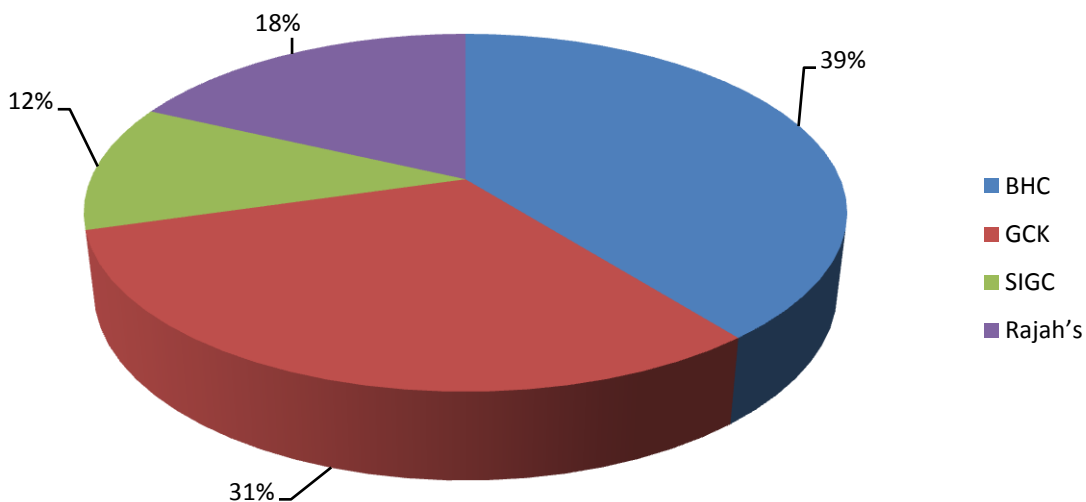


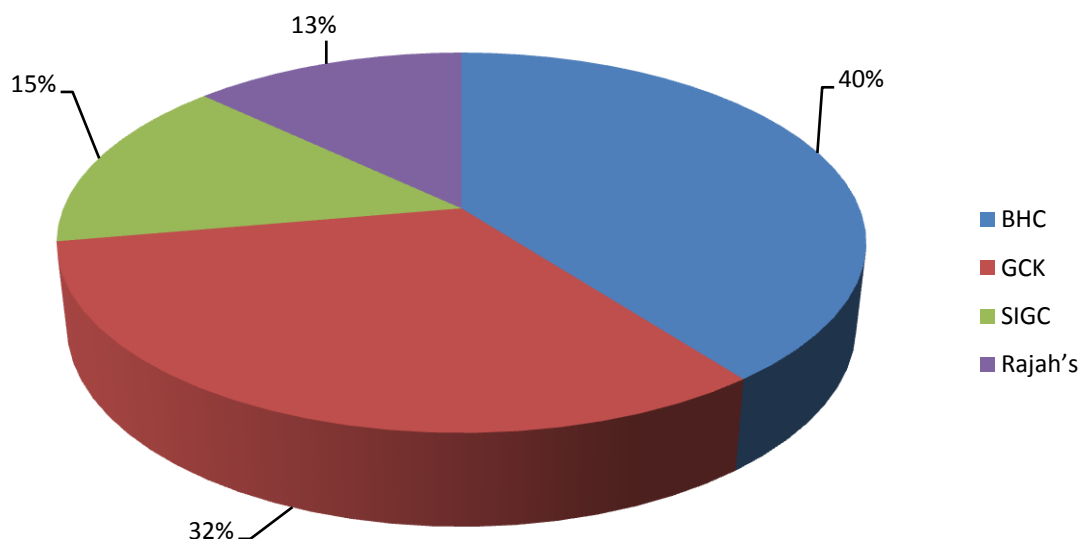
Figure VII. Pie Diagram Shows the Percentage Level of Total Number of goal kick by each team

Table VIII. Ball Possession (in Percentage)

| Sl.No | BHC | GCK | SIGC | Rajah's |
|-------|-----------|----------|----------|----------|
| 1 | 107 (40%) | 88 (32%) | 40 (15%) | 35 (13%) |

It was found from the table for ball possession the Bishop heber college has 40.00% followed by Government Arts College for Women, Kumbakonam of

32%, Shrimati Indira College of 15% and H.H. The Rajah's College of 13%. It shows that the Bishop heber college is higher than the other colleges.

**Figure 8.** Pie Diagram Shows the Percentage Level of Ball Possession

Conclusion

1. It was found that for total goals scored by each team the Bishop heber college has 75.00% followed by Government Arts College for Women, Kumbakonam of 25%.
2. It was found that for total number of shot at goal by each team the Bishop heber college has 45.00% followed by Government Arts College for Women, Kumbakonam of 21%, Shrimati Indira College of 17% and H.H. The Rajah's College of 17%.
3. It was found that for total number of pass by each team the Bishop heber college had 36.00% followed by Government Arts College for Women, Kumbakonam of 29%, Shrimati Indira College of 14% and H.H. The Rajah's College of 21%.
4. It was found that for total number of off side the Government Arts College for Women, Kumbakonam has 34.00% Bishop heber college followed by of 32%, Shrimati Indira College of 16% and H.H. The Rajah's College of 18%.
5. It was found that for total number of free kicks by each team the Bishop heber college has 34.00% followed by Government Arts College for Women, Kumbakonam of 33%, H.H. The Rajah's College of 22% and Shrimati Indira College of 11%.
6. It was found that for total number of cards received by each team the Government Arts College for

Women, Kumbakonam has 34.00% followed by Bishop heber college of 33%, H.H. The Rajah's College of 18% and Shrimati Indira College of 15%.

7. It was found that for total number of goal kick by each team the Bishop heber college has 39.00% followed by Government Arts College for Women, Kumbakonam of 31%, H.H. The Rajah's College of 18% and Shrimati Indira College of 12%.
8. It was found that for ball possession the Bishop heber college has 40.00% followed by Government Arts College for Women, Kumbakonam of 32%, Shrimati Indira College of 15% and H.H. The Rajah's College of 13%.

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