

## **General Principles to be followed for arriving at the expected score in Name Matching Tool**

### *Assumptions for the Name Comparison Score Table:*

<b>Terminology</b>	<b>Score</b>
<b>Highest Score</b>	100
<b>Higher Intermediate Score</b>	67-99
<b>Medium Intermediate Score</b>	34-66
<b>Lower Intermediate Score</b>	1-33
<b>Lowest Score</b>	0

This tool would be used to compare the name of the beneficiary in his/her Aadhaar with his/her name in the beneficiary list, for the purpose of seeding. The primary name would therefore be the beneficiary's name as per the beneficiary list and the name of the person as in his/her Aadhaar would be considered as the secondary name.

The principles used to evaluate/compare these two names and assign scores to the evaluation are enumerated below with suitable examples.

1. The primary name for comparison should be taken as the name of the person as in the beneficiary list. This primacy is meant to determine the various parts of the name, so as to ensure the name comparison is performed in an orderly fashion.
2. The tool should consider for comparison, only at the most 3 parts of a name (i.e. say a name being divided into First Name, Middle Name and Last Name in the beneficiary list).

For e.g.      **Sivadas**      **Sundaram**      **Nair**

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**First**                           **Middle**                           **Last**

3. The tool should be able to clearly segregate the First Name, Middle Name and Last Name from the full name mentioned in the beneficiary List.
  - a) In case the beneficiary List has the name separated into First, Middle and Last Name in itself (i.e. a structured input), the tool should consider the same for comparison.
  - b) In case the beneficiary List doesn't have the name separated into First, Middle and Last Name in itself, the tool should assume the order of these as in the sequence mentioned in the single name.
4. The priority of parts of names would follow the order of First, Last and Middle with First name holding the highest priority and Middle Name holding the lowest priority.
5. The tool should consider the priority mentioned in point no.2 while applying the rules and arrive at scores accordingly, especially in case of combination of rules/multiple rules being applied to multiple parts of a name simultaneously.
6. For a name consisting of more than 2 parts to it, the tool should compare each part of the name in the primary name with the corresponding part of the name in the secondary name.
7. Rule 6 implies that even if the order of the parts is reversed, the name match would return a comparable score as per the name comparison of different parts of the name according to any defined rule (Reddy Venkatesh vs. Venkatesh Reddy would be considered acceptable for all combinations).
8. Rule 6 also implies that even if the names are interchanged, i.e., whether beneficiary list name is taken as the primary name or the secondary name, the scores in each of the scenarios would remain

the same irrespective of the number of parts to the name in either scenario (Kirti Raghu Singh vs. Kirti Raghu / Kirti Raghu vs. Kirti Raghu Singh should yield the same score).

9. At any point of time, initial letter of parts of a name is always preferable to absence of that part of the name.
10. Prefixing of titles such as Mr., Dr., Mrs., Sri., Shri., Sree., Shree., Miss., Ms., Kumari., etc. should always be ignored while performing comparison.
11. Case of letters (upper case/lower case) should always be ignored while performing comparison.
12. Special characters before, in between or after the name/names should always be ignored while performing comparison.
13. Extra information mentioned along with the names such as c/o, w/o/, s/o, d/o etc. should always be ignored while performing comparison.
14. Alias/urf/a.k.a names should always be considered as valid names while performing comparison.
15. In case of concatenated names, presence of the name in non-concatenated form would carry more marks than parts of names being curtailed/omitted.

NikithaRani MohanRao – Nikitha Rani Mohan Rao

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**Higher Intermediate Score**

NikithaRani MohanRao – Nikitha Rani Mohan

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**Medium Intermediate Score**

NikithaRani MohanRao – Nikitha Mohan

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**Lowest Score**

16. First name in the beneficiary List should always be considered as the primary name.
17. For a name in the beneficiary list consisting of only a first name, below rules are to be applied for while comparing with the Name in Aadhaar:

17.1 If both the first names are exactly matching, then Highest score

Venkatesh – Venkatesh

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**Highest Score**

17.2 If both the first names are different, then Lowest score

Devraj – Nikhil

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**Lowest Score**

17.3 If first letter of both the first names is the same with the remaining letters not matching exactly but the names are phonetically similar, then Higher intermediate score (depending upon the number of letters which are different: higher the number of letters that are different, lesser the score and vice-versa)

Jackson – Jaxson/Yousuf-Yuzuf

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**Higher Intermediate Score**

Saurabh – Sourav/Kirti-Keerthi

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**Medium Intermediate Score**

17.4 If first letter of both the first names is the same with the remaining letters not matching exactly but can be considered as shortened versions, which lead to formation of another name, then Lowest score, except for in cases where the name formed is an alias/a.k.a/urf of the first name(in such cases, Highest score)

Michael –Mike/Chandrasekhar-Chandra

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**Lowest Score**

Michael alias Mike - Mike

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**Highest Score**

17.5 If first letter of both the first names is different, but the remaining letters are exactly matching and:

- a) the names are not phonetically similar but are rhyming in nature, then Lowest score
- b) the names are phonetically similar, then Medium Intermediate score

(Depending upon the number of letters which are different: higher the number of letters that are different, lesser the score and vice-versa)

Sita – Gita

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**Lowest Score**

Varun - Barun

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**Medium Intermediate Score**

17.6 If the first names in both are phonetically similar, but with doubling/tripling of letters or omission of letters, then Higher Intermediate score (depending upon the number of doubled/tripled/omitted letters: higher the frequency, lesser the score and vice-versa)

Mohamed – Mohammed

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**Higher Intermediate Score**

Jackson – Jacson

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**Higher Intermediate Score**

17.7 If the first names in both are phonetically similar, but with interchanged vowels, then Higher Intermediate Score (depending upon the frequency of interchanging of vowels : higher the frequency, lesser the score and vice-versa)

Hussein – Hussien

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**Higher Intermediate Score**

Moussaliaar – Muossalaiar

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**Higher Intermediate Score**

(with slightly lesser score since frequency of interchange is 2)

17.8 If the first name is replaced by an initial, then Lowest score

Venkatesh – V

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**Lowest Score**

18. For a name in the beneficiary list consisting of 2 parts i.e. a First Name and a Last Name, all the rules mentioned in point no.17 along with the below rules are to be applied for, while comparing with the Name in Aadhaar:

18.1 If First name and Last name in both are exactly matching, then Highest score

Venkatesh Reddy – Venkatesh Reddy

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**Highest Score**

18.2 If First name is exactly the same and Last name is different in Aadhaar name, and also not phonetically similar, then Lowest score

Rakesh Sharma – Rakesh Singh/Deepa Menon-Deepa Nair

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**Lowest Score**

18.3 If First name is absent in Aadhaar name but Last name is exactly matching, then Lower Intermediate score

Rakesh Sharma – Sharma/Deepa Menon-Menon

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**Lower Intermediate Score**

18.4 If First name is exactly matching but Last name is absent in Aadhaar name, then Medium Intermediate score

Rakesh Sharma – Rakesh/Deepa Menon-Deepa

|  
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**Medium Intermediate Score**

18.5 If First name is exactly matching but Last name is replaced by initials in Aadhaar name, then Higher Intermediate score

Rakesh Sharma – Rakesh S/Deepa Menon-Deepa M

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**Higher Intermediate Score**

- 18.6 If First name is replaced by initials in Aadhaar name but Last name is exactly matching, then Lower Intermediate score

Rakesh Sharma –R Sharma/Deepa Menon-D Menon

Lower Intermediate Score

- 18.7 If both First name and Last Names are replaced by initials in Aadhaar name, then Lowest Score

Rakesh Sharma –R S/Deepa Menon-D M

Lowest Score

- 18.8 If First name is exactly the same and Last name is different but phonetically similar, then Medium intermediate score (depending upon the number of letters which are different : higher the number of letters that are different, lesser the score and vice-versa)

Mohit Chawla – Mohit Chougla/Rahul Saurabh-Rahul Sourav

Medium intermediate Score

- 18.9 If First name in both are not exactly matching but are phonetically similar, and Last name is absent in Aadhaar name, then Lower Intermediate score (depending upon the number of letters which are different : higher the number of letters that are different, lesser the score and vice-versa)

Kirti Chawla – Keerthi /Jaxson Thomas-Jackson

Lower intermediate Score

- 18.10 If First name in both are not exactly matching but are phonetically similar, and Last name is exactly the same, then Medium Intermediate score (depending upon the number of letters which are different : higher the number of letters that are different, lesser the score and vice-versa)

Kirti Chawla – Keerthi Chawla/Jaxson Thomas-Jackson Thomas

Medium intermediate Score

- 18.11 If First name in both are not exactly matching but are phonetically similar, and Last name is different and not phonetically similar (even if they are rhyming/non-rhyming in nature) , then Lowest score

Kirti Singh – Keerthi Sharma/Saurabh Das-Sourav Dev

Lowest Score

- 18.12 If First name is different and phonetically not similar, but Last name is exactly matching, then Lowest score

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**Lowest Score**

- 18.13 If both First name and Last name are not exactly matching but are phonetically similar, then Lower Intermediate score (depending upon the number of letters which are different : higher the number of letters that are different, lesser the score and vice-versa)

Keerthi Chawla – Kirti Chougla/Saurabh Bhattacharya-Sourav Bhattacharjee

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**Lower Intermediate Score**

- 18.14 If First Name is the same but Last Name in Aadhaar name is a shortened version of the original Last name but can also be considered as another name altogether, then Lower Intermediate Score

James Jackson –James Jack

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**Lower Intermediate Score**

- 18.15 Rule No. 17.6 and 17.7 mentioned above would be applicable for Last names as well, in a name consisting of a First name and a Last name

Hameed Mohamed – Hameed Mohammed

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**Higher Intermediate Score**

Mike Jackson – Mike Jacson

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**Higher Intermediate Score**

Khalid Hussein – Khalid Hussien

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**Higher Intermediate Score**

Hassan Moussaliaar–Hassan Muossalaiar

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**Higher Intermediate Score**

(slightly lesser score since frequency of interchange is 2)

19. For a name in the beneficiary list consisting of 3 parts i.e. a First Name, a Middle Name and a Last Name, all the rules mentioned in point no. 17 and point no. 18 along with the below rules are to be applied for, while comparing with the Name in Aadhaar:

- 19.1 If First name, Middle name and Last name in both are exactly matching, then Highest score

Kirti Raghu Singh – Kirti Raghu Singh

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|  
**Highest Score**

- 19.2 If First name and Middle names are exactly the same but Last name is absent in Aadhaar name, then Medium Intermediate score

Kirti Raghu Singh – Kirti Raghu

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|  
**Medium Intermediate Score**

- 19.3 If First name and Middle names are exactly the same but Last name is different in Aadhaar name, and not phonetically similar, then Lower Intermediate score

Kirti Raghu Singh – Kirti Raghu Sharma

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**Lower Intermediate Score**

- 19.4 If First name and Last names are the same, but Middle Name is absent in Aadhaar name, then Medium Intermediate Score

Kirti Raghu Singh – Kirti Singh

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|  
**Medium Intermediate Score**

- 19.5 If First Name and Last names are exactly the same, but Middle Name is different in Aadhaar name and phonetically similar, then Medium Intermediate Score

Kirti Chawla Singh – Kirti Chougla Singh

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|  
**Medium Intermediate Score**

- 19.6 If First Name and Last names are exactly the same, but Middle Name is different in Aadhaar name and not phonetically similar, then Lower Intermediate Score

Kirti Chawla Singh – Kirti Raghu Singh

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**Lower Intermediate Score**

- 19.7 If Middle name, Last names are same, but First name is different in Aadhaar and  
a) Phonetically similar, then Medium Intermediate Score  
b) Phonetically not similar, then Lowest score

Kirti Chawla Singh – Keerthi Chawla Singh

Medium Intermediate Score

Kirti Chawla Singh – Rajni Chawla Singh

Lowest Score

- 19.8 If First name is the same, but Middle name and Last names are different and phonetically similar in Aadhaar name, then Lower Intermediate Score

Kirti Chawla Bhattacharya – Kirti Chougla Bhattacharjee

Lower Intermediate Score

- 19.9 If First name is the same and Middle name is different in Aadhaar name but phonetically similar, and Last name is different in Aadhaar name but not phonetically similar, then Lower Intermediate Score

Kirti Chawla Singh – Kirti Chougla Sharma

Lower Intermediate Score

- 19.10 If First name is the same and Middle name is different in Aadhaar name but not phonetically similar, and Last name is different in Aadhaar name but phonetically similar, then Lower Intermediate Score

Kirti Shekhar Bhattacharya – Kirti Chowdhury Bhattacharjee

Lower Intermediate Score

- 19.11 If First name is the same, but Middle name and Last names are different in Aadhaar name and not phonetically similar, then Lowest Score

Kirti Shekhar Bhattacharya – Kirti Chowdhury Sarkar

Lowest Score

- 19.12 If First name and Last names are different but Middle name is the same in Aadhaar name, then Lowest Score

Kirti Shekhar Bhattacharya – Devi Shekhar Sarkar

Lowest Score

- 19.13 If First Name and Last Names are the same but Middle Name is replaced by initials in Aadhaar name, then Higher Intermediate Score



Kirti Shekhar Bhattacharya – Kirti S Bhattacharya

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**Higher Intermediate Score**

- 19.14 If First Name and Middle Names are the same but Last Name is replaced by initials in Aadhaar name, then Medium Intermediate Score

Kirti Shekhar Anand – Kirti Shekhar A

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**Medium Intermediate Score**

- 19.15 If First Name is the same but the Middle Name and/or Last Name is replaced by initials in Aadhaar name, then Lower Intermediate Score

Kirti Shekhar Anand – Kirti S A

Kirti Shekhar Anand – Kirti A

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**Lower Intermediate Score**

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**Lower Intermediate Score**

- 19.16 If First Name is replaced by initials in Aadhaar name, but Middle Name and Last names match exactly, then Lower Intermediate Score

Rahul Sharma Anand – R Sharma Anand

|  
**Lower Intermediate Score**

- 19.17 If First Name and Last Names are the same, and Middle Name in the Aadhaar name is a shortened version of the original Middle name but can also be considered as another name altogether, then Medium Intermediate Score

James Jackson Alex – James Jack Alex

|  
**Medium Intermediate Score**

- 19.18 Rule No 17.6 and 17.7 mentioned above would be applicable for Middle names as well, in a name consisting of a First name, Middle Name and a Last name

Hameed Mohamed Chowdhury– Hameed Mohammed Chowdhury

|  
**Higher Intermediate Score**

Hassan Moussaliaar Hameed–Hassan Muossalaiaar Hameed

|  
**Higher Intermediate Score**

(with slightly lesser score since frequency of interchange is 2)