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Report on

Aadhaar Enabled

De-duplication & Verification Exercise

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1. Terms of Reference

There are approximately over 14 crore Aadhaar numbers currently seeded in various Service Delivery databases. In this regard, the **Prime Minister Office** (PMO) directed the Planning Commission and the UIDAI with the following Term of Reference:

- a. UIDAI to give a list of 300 districts where Aadhaar penetration is over 70%. The number of districts could vary +/-10%;
- b. In these 300 districts, use the existing data for verification and de-duplication of beneficiaries/consumers in the following schemes:
 - a. MGNREGA;
 - b. LPG;
 - c. PDS;
 - d. Scholarships (SC, ST & Minorities);
 - e. NSAP;
- Collect beneficiary data with Aadhaar numbers, where available and provide it to the UIDAI;
- d. UDIAI will authenticate the data, de-duplicate any if needed, and certify whatever details are provided plus a list of beneficiaries/consumer with no Aadhaar number;
- e. The unverified group will need to be checked in the field physically and enrolled in Aadhaar if they are not found to be fake;
- f. By 15th August 2014, UIDAI to submit a report to the Hon'ble Prime Minister indicating the results of the de-duplication/verification exercise including the number of fakes/ghosts identified;



2. Abbreviations

| Abbreviations | Definition |
|---------------|---|
| AEBA | Aadhaar-enabled Bank Account |
| ASA | Authentication Service Agency |
| ASDVS | Aadhaar Seeded Data Verification System |
| AUA | Authentication User Agency |
| CIDR | Central ID Data Repository |
| IGNDPS | Indira Gandhi National Disability Pension Scheme |
| IGNOAPS/NOAPS | Indira Gandhi National Old Age Pension Scheme |
| LPG | Liquefied Petroleum Gas |
| MGNREGS | Mahatma Gandhi National Rural Employment Guarantee Scheme |
| MPLS | Multi-Protocol Label Switching |
| MS | Minorities Scheme |
| NIC | National Informatics Center |
| NPCI | National Payment Corporation of India |
| ОТР | One Time PIN/Password |
| PDS | Public Distribution System |
| SCS | Scheduled Caste Scholarship |
| SRDH | State Resident Data Hub |
| STS | Scheduled Tribe Scholarship |
| UEBA | UID-enabled Bank Account |

Table 1 – Abbreviations



3. Definitions

Authentication

The process of establishing the identity of an Aadhaar holder by comparing his/her any single biometrics captured on an authentication device (either fingerprint or iris) with his/her biometrics captured at the time of enrolment is called authentication.

AUA

AUA stands for Authentication User Agency. The process of authentication takes places through a valid AUA – wherein the agency is registered with the UIDAI as AUA by way of signing of an agreement.

ASA

ASA stands for Authentication Service Agency. ASA provides the connectivity for the AUA to link with the CIDR of the UIDAI to perform authentication.

CIDR

CIDR stands for Central Identities Data Repository. All the data of the residents who have enrolled for Aadhaar is contained in CIDR. This data is protected in a secure environment and used by UIDAI for its operations of de-duplication and authentication based services.

De-Duplication

The process of establishing the identity of a person who has enrolled for an Aadhaar number through the enrolment process wherein his/her data (demographics and biometrics) is compared against the entire gallery of residents who have been enrolled thus far is called de-duplication. De-duplication, hence, involves 1:n comparisons where 'n' represents the total gallery size.

Direct Benefits Transfer (DBT)

Direct Benefits Transfer is a program launched by Government of India on 1st January 2013. The intention of the program was to transfer monetary benefits directly to beneficiaries'

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bank account using either the Aadhaar Payments Bridge (APB) channel or any other traditional channel, thus enhancing the targeting of beneficiary, transparency and accountability within the subsidies disbursement eco-system.

Seeding

The process of entering the Aadhaar number of the beneficiary into the benefit scheme database is referred to as seeding. The linking of Aadhaar in databases can be done in two ways viz. **Organic Seeding and Inorganic seeding.** Organic seeding is a method of linking Aadhaar numbers by collecting the Aadhaar numbers through either doo-to-door campaigns or through remote methods like SMS/ Internet. **Inorganic (Algorithmic) Seeding** is the process whereby a State Government can deploy software tools to match their digitised database with the UIDAI database.

Number of Records Received at NIC Server

The de-duplication and verification exercise is to be undertaken for beneficiary records of 5 schemes in 300 districts. For the process, the beneficiary records with and without Aadhaar have been uploaded at a central NIC server.

Number of Records with valid Aadhaar

Generation of Aadhaar number follows three key principles:

- Aadhaar Number is a 12 digit number;
- Aadhaar Number cannot start with 0 and 1;
- Generation of Aadhaar Number is compliant with Verhoeff algorithm;
- Aadhaar number has been ISSUED by UIDAI

In order to ensure an Aadhaar number is a valid number, it has to pass all the above four conditions.

Number of Records where Aadhaar number occurs ONCE/MULTIPLE times

Through the process of seeding, a beneficiary record is attached with a valid Aadhaar number. However, there are probabilities that in the process, the Aadhaar number is either:

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- Seeded with the same beneficiary record, multiple times;
- Seeded with different beneficiaries;

Records sent for Demographic Authentication

Demographic authentication is a process of comparing a record with Aadhaar number in Service Delivery database against the CIDR. In the process Aadhaar number (mandatory) along with other identification fields such as Name, Gender, Date of Birth, Pin code, etc. is sent to the UIDAI and in return UIDAI responds with a Yes/No



PART A: Introduction

3.1 About Aadhaar & Aadhaar-enabled Services

3.1.1 Aadhaar Enrolment

The Unique Identification Authority of India (UIDAI) was established in January 2009, as an attached office to the Planning Commission. The purpose of the UIDAI is to issue a unique identification number (Aadhaar) to all Indian residents that is (a) robust enough to eliminate duplicate and fake identities, and (b) can be verified and authenticated in an easy, costeffective way.

Aadhaar is built in partnership with Registrars, wherein registrars are primarily State Governments, Public Sector Banks, National Population Registrar (NPR), etc. All the registrars in the ecosystem have signed Memorandum of Understanding (MoU) with UIDAI.

As recommended by the Demographic Data Standards and Verification Committee Report (DDSVP) and Biometric Standards Committee, the UIDAI is collecting bare minimum demographic information from the residents such as Name, Age, Gender, Address and relationship details (in case of minors) along-with biometric information such as photograph, ten fingerprints and two iris for issue of a 12 digit randomly generated unique identity number.

As of August 3, 2014, more than 74 cr. residents have been enrolled for UIDAI and 65.32 crore Aadhaar numbers have been generated with more than 8.7 crore enrollments rejected due to duplicate enrollments and/ or process errors. In the 300 focus districts taken up for the purposes of this exercise, the population is 60 crore of which 48.19 crore (79.8%) have already been issued Aadhaar numbers as on date.

The district-wise Aadhaar saturation is provided in Annexure I.

3.1.2 Properties of Aadhaar

3.1.2.1 Uniqueness

Any individual, irrespective of age and gender, who is a resident in India and satisfies the verification process down by the UIDAI, can enroll for Aadhaar. An individual is required to enroll only once which is free of cost. In case, the resident enrolls more than once, ONLY ONE Aadhaar number shall be generated, as the **Uniqueness** is achieved through the deduplication process involving the biometrics.

3.1.2.2 Aadhaar Authentication Service

Aadhaar authentication is the process wherein Aadhaar number, along with other attributes (demographic/biometrics/OTP) is submitted to UIDAI's Central Server for verification; the Central server verifies whether the data submitted matches the data available in the server and responds with a "Yes/No". No personal identity information is returned as part of the response. The purpose of Authentication is to enable residents to prove their identity and for service providers to confirm that the residents are 'who they say they are' in order to supply services and give access to benefits.

3.1.2.3 e - Know Your Customer (e-KYC) Service

With the consent / authorization by the resident, the Aadhaar e-KYC service provides an instant, electronic, non-repudiable proof of identity and proof of address along with date of birth and gender. In addition, it also provides the resident's mobile number and email address to the service provider, which helps in further streamlining the process of service delivery. A typical use case for e-KYC service would be "Opening of a bank account".

3.1.2.4 Aadhaar as Financial Address

As Aadhaar number is unique and does not change over the lifecycle of an individual, the 12-dgit Aadhaar number is sufficient enough to transfer any payments to an individual. Today, in order to transfer money to a beneficiary, the Government/ Institution needs to know the bank account, IFSC Code, and bank branch details etc. which is prone to change. However, Aadhaar offers the possibility of sending money

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by just using the 12-digit number for life without bothering about any changes in the bank account of the individuals.

3.2 What is Aadhaar Seeding?

Aadhaar seeding is a process by which UIDs of residents are included in the service delivery database of service providers for enabling Aadhaar based authentication during service delivery. As an example, MNREGA will require authentication before payout of wages. In such a scenario, it will be essential to map UID of the resident with MNREGA Job Card number and other demographic information. Similarly, banks and insurance companies may want to map Aadhaar numbers of all their customers. The objective is not to replace the currently used unique identifier of the customers/ residents/ beneficiaries with Aadhaar but the objective is to seamlessly enable Aadhaar authentication without impacting any other interface that the service providers maintain with their customers.

Pre-requisites to Aadhaar Seeding

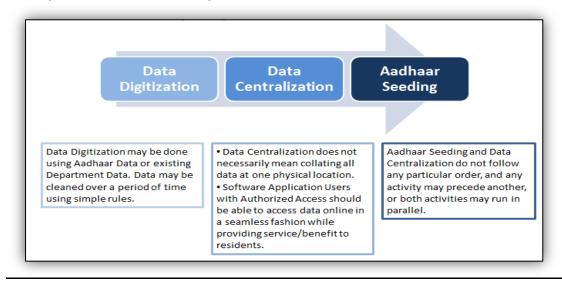


Figure 1 - Pre-requisites to Aadhaar Seeding

Channels for Seeding

Seeding initiatives could be of many types referred to here as 'channels' which provide the source of seeding such as SMS or Online based resident/ assisted self-seeding, manual seeding at point of service, algorithmic seeding etc. Below, is a brief overview of the most prevalent channels:

Aadhaar-based De-duplication & Verification

a. Organic Seeding - Organic seeding is a method where the residents voluntarily or in response to service provider's call initiate inclusion of their UID in service delivery databases. Organic seeding could be done using a variety of channels including door to door campaigns, special camps, SMS or Online based resident self-seeding, manual seeding functionality of State Resident Data Hub (SRDH) (which could be made available to say CSCs) etc.

Inorganic (Algorithmic) Seeding - In States where access to a production quality as well as access to digitized service delivery program beneficiary data is available, tools (such as the batch seeding utility of SRDH) can be used for inorganic (also known as top-down or algorithmic) seeding. This is a method by which one or more KYR fields in State Resident Data Hub (SRDH) database are compared with the equivalent fields in service delivery database in order to find a suitable match. Upon finding a match Aadhaar number from SRDH database is seeded into the service delivery database.

Common Challenges during Seeding

- Complete data is not captured in service delivery database;
- Similar information across different data sources do not have exact match between them;
- Data in service delivery database is in a local language;
- Mobilization of residents;

4. PART B: De-Duplication Exercise

4.1 Aadhaar-enabled De-Duplication vs. Demographic De-Duplication

One of the biggest challenges faced by various Ministries/State Government departments is the existence of duplicate beneficiary records in the Service Delivery database. This challenge has primarily stemmed for the following reasons:

- Lack of standardized processes while collecting applications. For instance, some departments may have segregated fields for First Name, Middle Name and Surname, while other department may just have a Name field;
- b. Poor data validation procedure;
- c. Data Completeness;

In order to clean such databases, Ministries/Department concerned will have to adopt the De-duplication processes. This process involving cleaning up of databases using a combination of common unique identifiers such as UID, Name, Father's Name, Address, Gender, Date of Birth, etc. is known as the De-Duplication process. The de-duplication process can be done either by using demographics or by using biometrics as explained below:

Demographic De-Duplication

At outset, it appears that using Name, Father Name, Date of Birth, and Address of a resident to find a duplicate in a database is a fairly simple process. However, due to lack of naming and address standards, demographic information obtained from different sources may have large variations that increase the possibilities of skipping a duplicate in the database. For e.g. a person may mention his name in multiple ways viz. Ram, R.K. Singh and Ram Kumar Singh and thus avail the government benefits multiple times.

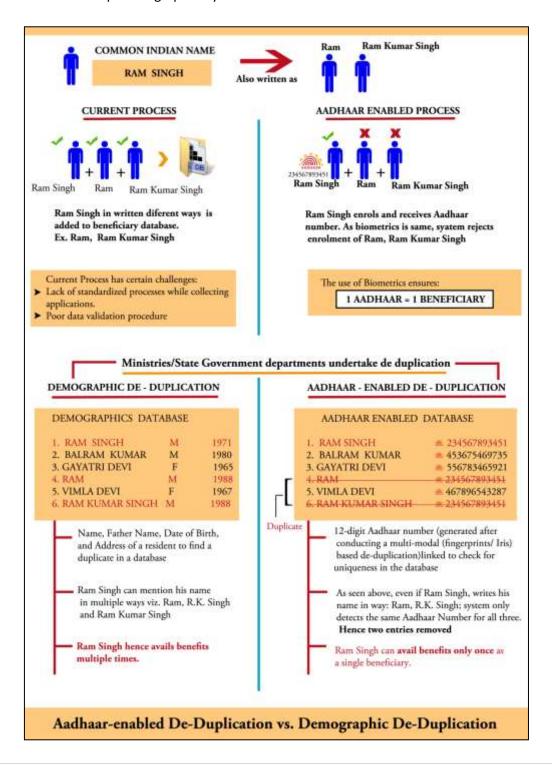
Aadhaar-enabled De-Duplication

As the 12-digit Aadhaar number is generated after conducting a multi-modal (fingerprints/Iris) based de-duplication, the use of the UNIQUE 12-digit Aadhaar number in the database provides a standard method of de-duplicating various databases in the country.

Aadhaar-based De-duplication & Verification

Hence, if the Unique 12-digit number (Aadhaar) is linked to the beneficiary database and a check is available for uniqueness in the database, the same person as given above viz. Ram, R.K. Singh and Ram Kumar Singh would have the same Aadhaar number and hence he would not be able to avail of multiple benefits from the government.

The same is explained graphically below:



Aadhaar-based De-duplication & Verification

Approach adopted for exercise

The mandate to the UIDAI was to perform Aadhaar-based de-duplication and verification for all the data across five specific benefit schemes that have been uploaded / shared by the States and provide actionable inputs for the 300 districts. For the purpose of the exercise, National Informatics Centre set up a central server in which the beneficiary data was collected. The Technology architecture is enclosed in Annexure II. The scheme-wise status of the number of districts for which the data was uploaded to the Central server is given below:

| SCHEMES | TOTAL NUMBER OF DISTRICTS TARGET | NUMBER OF DISTRICTS WITH DATA UPLOAD COMPLETED | BALANCE NUMBER OF DISTRICTS | REMARKS | | |
|---|----------------------------------|--|--------------------------------------|---|----|---|
| Pension programmes (including old age, disabled and widows) | 300 | 273 | 27 | 27 districts of Tamil Nadu- Approval of Chief Minister awaited | | |
| Post-matric scholarships - SC, ST, minorities | 300 | 272 | 28 | 27 districts of Tamil Nadu -Approval of Chief Minister awaited | | |
| | | | | Data Not Digitized for | | |
| | | | | 1 District of Andaman and Nicobar Islands and hence not amenable to verification. | | |
| NREGA beneficiaries | NREGA beneficiaries 300 263 37 | | GA beneficiaries 300 263 | NREGA beneficiaries 300 263 | 37 | 27 districts of Tamil Nadu -Approval of Chief Minister awaited. |
| | | | | No NREGA scheme in | | |
| | | | | 8 Districts of Delhi | | |
| | | | | 1 District of Maharashtra (Mumbai) | | |
| | | | | 1 District of Telangana (Hyderabad) | | |
| PDS ration card holders 300 | | 244 | 56 | 27 districts of Tamil Nadu -Approval of Chief Minister awaited- In any case, data is in Tamil and not in Unicode and hence not amenable to verification against UIDAI database. Data Not Digitized for | | |
| | | | | 16 districts of Haryana, | | |
| | | | | 8 districts of Odisha, | | |
| | | | | 5 districts of Tripura | | |
| LPG | 300 | 300 | 0 | | | |

(Source: Planning Commission)

Aadhaar-based De-duplication & Verification

4.1.1.1 Approach adopted for Seeded Data

As there could be errors of various kinds while entering the 12-digit Aadhaar number in the database for seeding/ linking, the UIDAI recommends that biometric authentication involving the fingerprint + 12 –digit number should be carried out for entering the 12-digit number in the database. However, in the current exercise, as the respective scheme owners had already seeded/ linked the Aadhaar number to the beneficiary database in some cases, the approach of demographic authentication (wherein Aadhaar number + Name/ Gender/ Date of Birth etc. are send to UIDAI for matching) was chosen due to the ability to do bulk authentication in a short time. The step-by-step process followed is enumerated below:

- A Proof of Concept (PoC) was done to check whether the solution/approach being adopted was practical, workable and quick. The PoC conducted established that the exercise of demographic authentication could be performed successfully. It also provided vital inputs regarding the number of machines (and instances) that need to be deployed to generate authentication requests. The ability of UIDAI authentication system was already benchmarked.
- 2. Based on the PoC a tool for bulk demographic authentication viz. Aadhaar Seeded Data Verification System (ASDV) was developed
- A massive exercise for data cleaning was done to prepare the data in the right format for ASDV. The tool was programmed to read cleaned data files and send authentication requests to UIDAI from the NIC server.
- 4. The software tool separated the Aadhaar seeded/ linked data and the non-Aadhaar linked data.
- 5. In case of Aadhaar seeded/linked data, the tool checked whether the
 - a. Seeded Aadhaar consists of 12 digits
 - b. Aadhaar number does not start with a 0 or 1 and confirms to the Vorhoeff algorithm (check digit)

Aadhaar-based De-duplication & Verification

- c. Whether it is valid Aadhaar issued by UIDAI and
- d. Whether it was seeded more than once.
- 6. The valid data was sent for demographic authentication.
- 7. The authentication responses were standardized and analyzed.

4.1.1.2 Approach adopted for Non-Seeded Data

As highlighted in section 4.1 (Aadhaar-based de-duplication vs. Demographic de-duplication), Demographic de-duplication is not as effective, due to lack of standardization, combination of different types of algorithms (Double Metaphone, Lavenstine, Soundex, etc) and above all incompleteness of data. However, in the spirit of the exercise, UIDAI developed a tool to analyze non-seeded data of 1500 beneficiary records with combination of different Schemes and Districts were selected and following were our observations:

- a. The processing required an enormous amount of computing power, as name and other field normalization have to be undertaken. For instance, a name can be written in following manner:
 - i. Ram Singh
 - ii. Ram
 - iii. Ram Kumar Singh
- b. There were plenty of records where only Year of Birth was mentioned
- c. Most of the Service Delivery Databases like MGNREGS do not capture Pin code. Due to which if a de-duplication algorithm yields a 1:N result. This essentially means that each and every record which has matched will have to be verified.

The key findings in this sample are given below:

 A sample of 61,856 non-Aadhaar seeded/ linked records were subjected to the demographic de-duplication as per the approach detailed above.



- 47% match success rate was noticed after the review of the results. This means that
 of the 61,856 non-Aadhaar sample data received, 47% of the people may have an
 Aadhaar issued and the probable Aadhaar could be found.
- Data quality and capture format plays a major role in this kind of matching.

It may be concluded that this method is not a preferred mode over the Aadhaar- based authentication mechanism in view of the vast variance among various databases - vintage, format, quality etc.

The summary of the non-Aadhaar seeded data is given below:

| State Name | Schema Name | Un-seeded Records | Sample Size of Un-seeded | Match Success | Estimate d Seeding Potential |
|-------------|----------------|-------------------|-----------------------------|------------------|------------------------------------|
| Delhi | IGNWPS | 115,691 | 7,039 | 5,371 | 76% |
| Himachal | | | 13,500 | 7,619 | |
| Pradesh | NREGA | 1,183,099 | | | 56% |
| Jharkhand | NREGA | 6,170,128 | 21,000 | 7,176 | 34% |
| | | | 1,500 | | |
| Lakshadweep | STS | 2,143 | | 431 | 29% |
| Telangana | MS | 3,311 | 1,306 | 377 | 29% |
| Karnataka | MS | 913 | 912 | 438 | 48% |
| Karnataka | STS | 68,023 | 9,443 | 3,630 | 38% |
| Sikkim | PDS | 262,053 | 3,000 | 1,870 | 62% |
| | | | 1,500 | | |
| West Bengal | SCS | 29,372 | | 858 | 57% |
| West Bengal | STS | 4,632 | 2,656 | 1,387 | 52% |
| Total | | 7,839,365 | 61,856 | 29,157 | 47.14 |

4.1.2 Pre-Data Processing Observations

The Raw data received from NIC for the various States schemes were not as per the shared standard format. This resulted in a lot of manual intervention in cleaning and getting the data in the desired form to perform de-duplication and verification.

Some of the data quality issues are highlighted below:

i. Right shifted column values;

Aadhaar-based De-duplication & Verification

- ii. Space and/or hyphens in Aadhaar number;
- iii. Enrollment Identity numbers (EIDs) of Aadhaar instead of Aadhaar;
- iv. Aadhaar mentioned as zero;
- v. Only local language names provided, where English name was mandated;
- vi. Age is randomly put; records showing that a 1 year old person is getting pensions and 114 years old getting scholarship;
- vii. Multiple data formats exists in the same file;
- viii. Majority of data doesn't have UID number;
- ix. Unable to connect NIC servers because of frequent N/W disconnect issue;

4.2 Summary of data received Scheme-wise

In total, 54.21 crore records were received were received of which the maximum number of records received were for PDS scheme (30.03 cr) followed by MGNREGS with 12.18 crore records. Of these, the number of records where the Aadhaar number field was filled in were 11.55 cr records. The match success is seen to be highest in case of Scholarship schemes at an average of 88% (which could be due to the standard procedure adopted) and lowest for the IGNOAPS Scheme at 64.83% (could be due to the data vintage).

State-wise data analysis reveals that the highest number of records submitted were by the state of Maharashtra (10.54 cr) followed by A.P. (6.88 cr) and then M.P. (6.76 cr.). The match percentage is higher for the Govt. of NCT of Delhi (98%), West Bengal (95%), (Haryana (94%), Odisha (90%) but is very low in Madhya Pradesh (39%) which could be attributed to data quality issues/ legacy data issues. A summary snapshot scheme-wise and State-wise is shown below:



| S.No. | No. of records received at NIC server | No. of records with Aadhaar field populated | with Valid Aadhaar | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
|-----------------|---|---|-----------------------|---------------------------------------|--|--|---------|
| IGNDPS | 12,26,846 | 4,30,669 | 3,19,524 | 3,18,359 | 3,15,631 | 2,06,904 | 65.55 |
| IGNOAPS | 1,25,26,426 | 18,91,447 | 12,79,998 | 12,69,724 | 12,17,411 | 7,89,212 | 64.83 |
| IGNWPS | 49,20,727 | 14,13,433 | 7,57,567 | 7,47,013 | 7,30,888 | 5,07,843 | 69.48 |
| MGNREGA | 12,18,55,410 | 1,75,87,841 | 74,72,518 | 73,92,887 | 70,45,818 | 52,73,324 | 74.84 |
| Minorities | 6,27,115 | 3,47,786 | 2,20,031 | 2,19,577 | 2,13,634 | 1,88,946 | 88.44 |
| PDS | 30,03,05,511 | 5,34,88,058 | 5,28,25,284 | 5,08,21,178 | 4,96,08,799 | 3,91,49,208 | 78.92 |
| SCS | 23,57,449 | 5,78,098 | 3,36,851 | 3,20,810 | 2,44,248 | 2,11,921 | 86.76 |
| STS | 11,68,456 | 2,26,333 | 1,12,817 | 1,09,675 | 1,11,244 | 95,475 | 85.82 |
| All India - LPG | 9,71,63,551 | 3,95,83,061 | 3,95,83,061 | 3,92,87,825 | 3,92,27,293 | 3,17,29,430 | 80.89 |
| Grand Total | 54,21,51,491 | 11,55,46,726 | 10,29,07,651 | 10,04,87,048 | 9,87,14,966 | 7,81,52,263 | 79.17 |

Figure 2 - Scheme wise Summary

Summary of data received State-wise

| No. | State Name (All States in | No. of records received at NIC | No. of records | No. of records N | No. of records | No. of records | No. of Distinct | No. of records | in which A | adhaar no. oc | currs | No. of | No. of | Match % |
|-------|------------------------------|--------------------------------|----------------|------------------|----------------|----------------|-----------------|----------------|------------|---------------|-------------|-----------|--------|---------|
| S.No. | alphabetical order) | | with Aadhaar | with Valid | Aadhaar | Once Only | 2<5 | 6<10 | > 10 | records | matched | IMALCR 76 | | |
| 1 8 | 1 Andaman and Nicobar Island | 61,349 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| ğ | 2 Andhra Pradesh | 6,88,43,323 | 3,00,02,480 | 2,37,17,308 | 2,29,70,723 | 2,23,75,059 | 5,88,339 | 6,366 | 959 | 2,34,10,514 | 1,77,95,853 | 76.00 | | |
| | 3 Chandigarh | 3,57,525 | 36,039 | 12,194 | 12,183 | 12,172 | 11 | 0 | 0 | 7,583 | 6,110 | 80.5 | | |
| 1 | 4 Chhatishgarh | 35,86,486 | 55 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | | | |
| 3 | 5 Dadra and Nagar Haveli | 2,11,116 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 3 | 6 Daman and Diu | 63,073 | 28,446 | 25,546 | 25,383 | 25,222 | 161 | .0 | 0 | 23,272 | 17,516 | 75.2 | | |
| 1 | 7 Delhi | 84,23,947 | 33,59,849 | 32,46,629 | 32,46,614 | 32,46,599 | 15 | 0 | 0 | 32,42,844 | 31,77,607 | 97.9 | | |
| 1 8 | 8 Goa | 17,08,724 | 1,59,143 | 1,25,538 | 1,25,162 | 1,24,787 | 375 | . 0 | 0 | 1,15,946 | 1,02,030 | 88.00 | | |
| . 8 | 9 Gujarat | 30,49,013 | 79,224 | 39,983 | 39,841 | 39,707 | 134 | 0 | 0 | 38,340 | 23,389 | 61.00 | | |
| 1 | 0 Haryana | 49,74,259 | 8,74,630 | 8,16,267 | 8,16,092 | 8,00,246 | 45 | . 0 | 0 | 8,10,232 | 7,61,156 | 93.94 | | |
| 1 | 1 Himachal Pradesh | 47,29,346 | 27,50,393 | 27,07,671 | 22,70,569 | 19,75,946 | 2,92,171 | 1,591 | 551 | 17,32,881 | 15,37,426 | 88.77 | | |
| 1 | 2 Jharkhand | 82,76,708 | 21,04,097 | 20,92,364 | 20,92,364 | 20,92,364 | 0 | . 0 | 0 | 20,80,983 | 14,32,251 | 68.83 | | |
| 1 | 3 Karnataka | 10,56,251 | 39,844 | 39,745 | 39,726 | 39,707 | 19 | 0 | . 0 | 39,599 | 29,374 | 74.1 | | |
| 1 | 4 Kerala | 4,14,03,510 | 36,01,405 | 4,55,026 | 4,55,026 | 4,55,026 | 0 | .0 | 0 | 4,49,553 | 3,26,637 | 72.66 | | |
| 1 | 5 Lakshadweep | 91,188 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 1 | 6 Madhya Pradesh | 6,76,21,068 | 1,17,385 | 1,12,840 | 1,12,622 | 1,12,040 | 582 | . 0 | 0 | 47,065 | 18,399 | 39.09 | | |
| 1 | 7 Maharashtra | 10,54,23,304 | 6,62,851 | 5,99,762 | 5,73,489 | 5,52,018 | 21,389 | 82 | 0 | 95,198 | 55,992 | 58.82 | | |
| 1 | 8 Odisha | 50,14,158 | 13,612 | 1,342 | 1,338 | 1,336 | 2 | . 0 | 0 | 1,254 | 1,133 | 90.35 | | |
| 1 | 9 Puducherry | 17,75,973 | 7,22,437 | 87,801 | 87,801 | 87,801 | 0 | 0 | 0 | 73,555 | 63,373 | 86.16 | | |
| 2 | 0 Punjab | 3,25,96,366 | 62,54,677 | 57,63,177 | 52,05,728 | 46,84,528 | 5,20,744 | 356 | 100 | 56,72,276 | 49,94,393 | 88.05 | | |
| 2 | 1 Rajasthan | 28,70,902 | 1,37,291 | 47,189 | 47,016 | 46,843 | 173 | 0 | 0 | 44,982 | 34,177 | 75.98 | | |
| 2 | 2 Sikkim | 5,63,621 | 2,63,107 | 1,33,551 | 1,31,432 | 1,29,351 | 2,081 | .0 | 0 | 1,27,116 | 1,10,039 | 86.5 | | |
| 2 | 3 Tamil Nadu | 66,016 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 2 | 4 Telangana | 5,33,20,615 | 2,42,84,239 | 2,28,29,018 | 2,25,54,820 | 2,23,00,435 | 2,53,274 | 798 | 313 | 2,13,95,239 | 1,58,68,659 | 74.1 | | |
| 2 | 5 Tripura | 15,45,855 | 4,34,816 | 9500000000 | | 2,93,917 | 68,262 | 10 | 3 | 50,381 | 39,902 | 79.20 | | |
| 2 | 6 West Bengal | 2,73,54,244 | 37,645 | 29,122 | 29,102 | 29,082 | 20 | 0 | 0 | 28,860 | 27,417 | 95.00 | | |
| 2 | 7 All - India LPG | 9,71,63,551 | 3,95,83,061 | 3,95,83,061 | 3,92,87,825 | 3,91,61,903 | 1,24,586 | 1,065 | 1 | 3,92,27,293 | 3,17,29,430 | 80.85 | | |
| | Grand Total | 54,21,51,491 | 11,55,46,726 | 10,29,07,651 | 10,04,87,048 | 9,85,86,089 | 18,72,383 | 10,268 | 1,927 | 9,87,14,966 | 7,81,52,263 | 79.17 | | |

Figure 3 - State wise Summary

Aadhaar-based De-duplication & Verification

5.3.1 Public Distribution System (PDS)

Following is our observation after Aadhaar-based de-duplication and verification exercise:

| Public Distribution System | | | | | | |
|---|--------------|--|--|--|--|--|
| Total records received with/without Aadhaar number | 30,03,05,511 | | | | | |
| Total records received with valid and distinct UIDs | 5,08,21,178 | | | | | |
| UIDs occurring more than ONCE | 16,51,218 | | | | | |
| UIDs Requiring Field Verification | 1,04,59,591 | | | | | |

Table 2 - PDS Summary

5.3.1.1 PDS - Aadhaar-enabled De-Duplication

As shown in *figure 4* below, of the **30,03,05,511** records received from NIC from the states, there were **5,34,88,058** records where Aadhaar number data field was filled in. Of these, **5,28,25,284** number of Aadhaars were found to be valid. Of these **5,28,25,284** valid Aadhaar numbers, **4,91,69,960** Aadhaar numbers were attached to only one beneficiary, whereas **16,51,218** Aadhaar numbers were attached to more than one beneficiary/ same beneficiary in the database.

| | | No. of | No. of records | No. of | No. of | No. of records i | n which Aadh | aar no. occi | urrs more |
|-------|---|--------------------------------------|------------------------------------|----------------------------------|--------------------------------|------------------|--------------|--------------|-----------|
| S.No. | State Name (All States in alphabetical order) | records received at NIC server | with Aadhaar field populated | records with Valid Aadhaar | Distinct Aadhaar numbers | Once Only | 2<5 | 6<10 | >10 |
| 1 | Andaman and Nicobar Islands | 58,603 | - | - | - | - | - | - | - |
| 2 | Andhra Pradesh | 47,190,522 | 22,520,162 | 22,520,162 | 21,791,718 | 21,212,854 | 571,633 | 6,288 | 943 |
| 3 | Chandigarh | 349,862 | 28,376 | 4,543 | 4,532 | 4,521 | 11 | - | |
| 4 | Chhatishgarh | 2,289,051 | - | - | - | - | - | - | |
| 5 | Dadra and Nagar Haveli | 197,534 | - | - | - | - | - | - | - |
| 6 | Daman and Diu | 59,720 | 25,960 | 25,544 | 25,381 | 25,220 | 161 | - | - |
| 7 | Delhi | 7,896,626 | 3,240,023 | 3,240,023 | 3,240,023 | 3,240,023 | | - | - |
| 8 | Goa | 1,658,790 | 151,654 | 118,067 | 117,696 | 117,326 | 370 | - | - |
| 9 | Gujarat | - | - | - | - | - | - | - | - |
| 10 | Haryana | 583,126 | 543,166 | 543,157 | 543,157 | 543,157 | - | - | - |
| 11 | Himachal Pradesh | 2,325,034 | 1,645,419 | 1,645,419 | 1,227,300 | 951,811 | 273,347 | 1,591 | 551 |
| 12 | Jharkhand | - | - | - | - | - | - | - | - |
| 13 | Karnataka | - | - | - | - | - | - | - | - |
| 14 | Kerala | 35,733,032 | - | - | - | - | - | - | - |
| 15 | Lakshadweep | 70,379 | - | - | - | - | - | - | - |
| 16 | Madhya Pradesh | 17,537,703 | 61,151 | 61,151 | 60,933 | 60,716 | 217 | - | - |
| 17 | Maharashtra | 97,237,411 | 541,615 | 541,615 | 516,298 | 495,634 | 20,585 | 79 | - |
| 18 | Odisha | - | - | - | - | - | - | - | - |
| 19 | Puducherry | 1,329,199 | 523,170 | 32,606 | 32,606 | 32,606 | - | - | - |
| 20 | Punjab | 30,410,881 | 5,700,102 | 5,635,221 | 5,078,044 | 4,557,115 | 520,473 | 356 | 100 |
| 21 | Rajasthan | - | - | - | - | - | - | - | - |
| 22 | Sikkim | 445,088 | 183,035 | 133,551 | 131,432 | 129,351 | 2,081 | - | - |
| 23 | Tamil Nadu | - | | - | - | - | - | - | - |
| 24 | Telangana | 34,633,999 | 18,324,225 | 18,324,225 | 18,052,058 | 17,799,626 | 251,330 | 789 | 313 |
| 25 | Tripura | - | | - | - | - | - | - | - |
| 26 | West Bengal | 20,298,951 | - | - | - | - | - | - | - |
| | Grand Total | 300,305,511 | 53,488,058 | 52,825,284 | 50,821,178 | 49,169,960 | 1,640,208 | 9,103 | 1,907 |

Figure 4- PDS State wise De-duplication

Aadhaar-based De-duplication & Verification

5.3.1.2 PDS - Aadhaar-enabled Verificatio

As shown in *figure 5* below, of the **30,03,05,511** records received from NIC from the states, there were **5,34,88,058** records where Aadhaar number data field was filled in. Of these, **5,28,25,284** number of Aadhaars were found to be valid. Of these **5,28,25,284** valid Aadhaar numbers, **1,04,59,591** Aadhaar numbers could not be verified with the UIDAI CIDR.

| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populated | No. of records with Valid Aadhaar | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
|-------|---|---|---|--|---------------------------------------|--|--|---------|
| 1 | Andaman and Nicobar Islands | 58,603 | - | - | - | - | - | |
| 2 | Andhra Pradesh | 47,190,522 | 22,520,162 | 22,520,162 | 21,791,718 | 22,266,599 | 17,035,560 | 77 |
| 3 | Chandigarh | 349,862 | 28,376 | 4,543 | 4,532 | - | - | |
| 4 | Chhatishgarh | 2,289,051 | - | - | - | - | - | |
| 5 | Dadra and Nagar Haveli | 197,534 | - | - | - | - | - | |
| 6 | Daman and Diu | 59,720 | 25,960 | 25,544 | 25,381 | 23,270 | 17,516 | 75 |
| 7 | Delhi | 7,896,626 | 3,240,023 | 3,240,023 | 3,240,023 | 3,240,023 | 3,175,222 | 98 |
| 8 | Goa | 1,658,790 | 151,654 | 118,067 | 117,696 | 108,477 | 95,265 | 88 |
| 9 | Gujarat | - | - | - | - | - | - | |
| 10 | Haryana | 583,126 | 543,166 | 543,157 | 543,157 | 539,766 | 527,138 | 98 |
| 11 | Himachal Pradesh | 2,325,034 | 1,645,419 | 1,645,419 | 1,227,300 | 674,751 | 664,105 | 98 |
| 12 | Jharkhand | - | - | - | - | - | - | |
| 13 | Karnataka | - | - | - | - | - | - | |
| 14 | Kerala | 35,733,032 | - | - | - | - | - | |
| 15 | Lakshadweep | 70,379 | - | - | - | - | - | |
| 16 | Madhya Pradesh | 17,537,703 | 61,151 | 61,151 | 60,933 | - | - | |
| 17 | Maharashtra | 97,237,411 | 541,615 | 541,615 | 516,298 | 37,051 | 24,596 | 66 |
| 18 | Odisha | - | - | - | - | - | - | |
| 19 | Puducherry | 1,329,199 | 523,170 | 32,606 | 32,606 | 32,381 | 31,237 | 96 |
| 20 | Punjab | 30,410,881 | 5,700,102 | 5,635,221 | 5,078,044 | 5,635,221 | 4,958,994 | 88 |
| 21 | Rajasthan | - | - | - | - | - | - | |
| 22 | Sikkim | 445,088 | 183,035 | 133,551 | 131,432 | 127,116 | 110,039 | 87 |
| 23 | Tamil Nadu | - | | - | - | - | - | |
| 24 | Telangana | 34,633,999 | 18,324,225 | 18,324,225 | 18,052,058 | 16,924,144 | 12,509,536 | 74 |
| 25 | Tripura | - | | - | - | - | - | |
| 26 | West Bengal | 20,298,951 | - | - | - | - | - | |
| | Grand Total | 300,305,511 | 53,488,058 | 52,825,284 | 50,821,178 | 49,608,799 | 39,149,208 | 79 |

Figure 5 - PDS State wise Verification

5.3.2 National Social Assistance Program (NSAP)

Following is our observation after Aadhaar-based de-duplication and verification exercise:

| IGDNPS | | | | | |
|--|-----------|--|--|--|--|
| Total records received with/without Aadhaar number | 12,26,846 | | | | |
| Total records received with valid and distinct Aadhaar numbers | 3,18,359 | | | | |
| UIDs occurring more than ONCE | 1,102 | | | | |
| UIDs Require Field Verification | 1,08,727 | | | | |

Table 3 - IGDNPS Summary



| IGNOAPS | | | | | | | |
|--|-------------|--|--|--|--|--|--|
| Total records received with/without Aadhaar number | 1,25,26,426 | | | | | | |
| Total records received with valid and distinct Aadhaar numbers | 12,69,724 | | | | | | |
| UIDs occurring more than ONCE | 9,046 | | | | | | |
| UIDs Require Field Verification | 4,28,199 | | | | | | |

Table 4 - IGNOAPS Summary

| IGNWPS | | | | | | | |
|--|-----------|--|--|--|--|--|--|
| Total records received with/without Aadhaar number | 49,20,727 | | | | | | |
| Total records received with valid and distinct Aadhaar numbers | 7,47,013 | | | | | | |
| UIDs occurring more than ONCE | 10,221 | | | | | | |
| UIDs Require Field Verification | 2,23,045 | | | | | | |

5.3.2.1 Aadhaar-enabled de-duplication (IGNDPS)

As shown in *figure 6* below, of the **12,26,846** records received from NIC from the states, there were **4,30,669** records where Aadhaar number data field was filled in. Of these, **3,18,359** number of Aadhaars were found to be valid. Of these **3,18,359** valid Aadhaar numbers, **3,17,257** Aadhaar numbers were attached to only one beneficiary, whereas **1,102** Aadhaar numbers were attached to more than one beneficiary/ same beneficiary in the database.

| | | | | | | No. of records in which Aadhaar no. | | | |
|-------|---|---|---|--|------------------------------------|-------------------------------------|-------|------|-----|
| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populated | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | Once Only | 2<5 | 6<10 | >10 |
| 1 | Andaman and Nicobar Islands | = | ı | | = | - | - | - | - |
| 2 | Andhra Pradesh | 224,567 | 224,567 | 113,452 | 112,489 | 111,584 | 899 | 6 | - |
| 3 | Chandigarh | 88 | 88 | 88 | 88 | 88 | - | - | - |
| 4 | Chhatishgarh | - | - | - | - | - | - | - | - |
| 5 | Dadra and Nagar Haveli | - | - | - | - | - | - | - | - |
| 6 | Daman and Diu | - | - | - | - | - | - | - | - |
| 7 | Delhi | - | - | - | - | - | - | - | - |
| | Goa | - | - | - | - | - | - | - | - |
| 9 | Gujarat | 1,206 | 4 | - | - | - | - | - | - |
| | Haryana | 139,936 | 542 | 509 | 508 | 507 | 1 | - | - |
| 11 | Himachal Pradesh | - | - | - | - | - | - | - | - |
| 12 | Jharkhand | - | - | - | - | - | - | - | - |
| 13 | Karnataka | 641,612 | - | - | - | - | - | - | - |
| 14 | Kerala | 117,070 | 117,070 | 117,070 | 117,070 | 117,070 | - | - | - |
| 15 | Lakshadweep | - | - | - | - | - | - | - | - |
| 16 | Madhya Pradesh | 5,864 | 5,232 | 5,232 | 5,232 | 5,232 | - | - | - |
| 17 | Maharashtra | - | = | = | - | - | - | - | - |
| 18 | Odisha | - | - | - | - | - | - | - | - |
| | Puducherry | - | - | - | - | - | - | - | - |
| 20 | Punjab | 161 | 160 | 161 | 160 | 159 | 1 | - | - |
| 21 | Rajasthan | 1,580 | 1,574 | 1,580 | 1,574 | 1,568 | 6 | - | - |
| | Sikkim | - | - | - | - | - | - | - | - |
| 23 | Tamil Nadu | - | - | - | - | - | - | - | - |
| 24 | Telangana | 80,895 | 80,895 | 80,895 | 80,702 | 80,514 | 183 | 5 | - |
| | Tripura | 537 | 537 | 537 | 536 | 535 | 1 | | |
| | West Bengal | 13,330 | - | - | - | - | - | - | - |
| | Grand Total | 1,226,846 | 430,669 | 319,524 | 318,359 | 317,257 | 1,091 | 11 | - |

Figure 6 - IGNDPS De-Duplication

Aadhaar-based De-duplication & Verification

5.3.2.2 Aadhaar-enabled Verification (IGNDPS)

As shown in *figure 7* below, of the **12,26,846** records received from NIC from the states, there were **4,30,669** records where Aadhaar number data field was filled in. Of these, **3,18,359** number of Aadhaars were found to be valid. Of these **3,18,359** valid Aadhaar numbers, **1,08,727** Aadhaar numbers could not be verified with the UIDAI CIDR.

| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populated | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
|-------|---|---|---|---|------------------------------------|---|---|-----------|
| 1 | Andaman and Nicobar Islands | - | - | - | - | 0 | 0 | - |
| 2 | Andhra Pradesh | 224,567 | 224,567 | 113,452 | 112,489 | 113452 | 72609 | 63.999753 |
| 3 | Chandigarh | 88 | 88 | 88 | 88 | 88 | 71 | 80.68 |
| 4 | Chhatishgarh | - | - | - | - | 0 | 0 | |
| 5 | Dadra and Nagar Haveli | - | - | - | - | 0 | 0 | |
| 6 | Daman and Diu | - | - | - | - | 0 | 0 | |
| 7 | Delhi | - | - | - | - | 0 | 0 | |
| 8 | Goa | - | - | - | - | 0 | 0 | |
| 9 | Gujarat | 1,206 | 4 | - | - | 0 | 0 | |
| 10 | Haryana | 139,936 | 542 | 509 | 508 | 508 | 460 | 90.55 |
| 11 | Himachal Pradesh | - | - | - | • | 0 | 0 | |
| 12 | Jharkhand | - | | - | - | 0 | 0 | |
| 13 | Karnataka | 641,612 | ı | - | ı | 0 | 0 | |
| 14 | Kerala | 117,070 | 117,070 | 117,070 | 117,070 | 115564 | 79964 | 69.19 |
| 15 | Lakshadweep | - | - | - | - | 0 | 0 | |
| 16 | Madhya Pradesh | 5,864 | 5,232 | 5,232 | 5,232 | 5232 | 1904 | 36.39 |
| 17 | Maharashtra | - | - | - | - | 0 | 0 | |
| 18 | Odisha | ı | ı | - | ı | 0 | 0 | |
| 19 | Puducherry | ı | | - | Ī | 0 | 0 | |
| 20 | Punjab | 161 | 160 | 161 | 160 | 154 | 128 | 83.12 |
| 21 | Rajasthan | 1,580 | 1,574 | 1,580 | 1,574 | 1540 | 1191 | 77.34 |
| 22 | Sikkim | - | - | - | Ţ | 0 | 0 | |
| 23 | Tamil Nadu | - | - | - | - | 0 | 0 | |
| 24 | Telangana | 80,895 | 80,895 | 80,895 | 80,702 | 78583 | 50182 | 63.86 |
| 25 | Tripura | 537 | 537 | 537 | 536 | 510 | 395 | 77.45 |
| 26 | West Bengal | 13,330 | - | - | - | 0 | 0 | |
| | Grand Total | 1,226,846 | 430,669 | 319,524 | 318,359 | 315,631 | 206,904 | 66 |

Figure 7 - IGNDPS Verification

5.3.2.3 Aadhaar-enabled de-duplication (IGNOAPS)

As shown in *figure 8* below, of the **1,25,26,426** records received from NIC from the states, there were **18,91,447** records where Aadhaar number data field was filled in. Of these, **12,69,724** number of Aadhaars were found to be valid. Of these **12,69,724** valid Aadhaar numbers, **12,60,678** Aadhaar numbers were attached to only one beneficiary, whereas **9,046** Aadhaar numbers were attached to more than one beneficiary/ same beneficiary in the database.



| | | No of seconds | No of seconds with | No of accordenials | | No. of re | cords in w | hich Aadha | ar no. |
|-------|---|---|---|---|------------------------------------|-----------|------------|------------|--------|
| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populated | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | Once Only | 2<5 | 6<10 | > 10 |
| 1 | Andaman and Nicobar Islands | - | - | | | - | - | - | - |
| 2 | Andhra Pradesh | 2,071,206 | 687,890 | 658,042 | 650,734 | 644,400 | 6,268 | 54 | 12 |
| 3 | Chandigarh | 2,887 | 2,887 | 2,875 | 2,875 | 2,875 | - | - | - |
| 4 | Chhatishgarh | 11,638 | - | | | - | - | - | - |
| 5 | Dadra and Nagar Haveli | 8,206 | - | | | - | - | - | - |
| 6 | Daman and Diu | 1,601 | 1,070 | - | - | - | - | - | - |
| 7 | Delhi | 381,698 | 90,494 | - | - | - | - | - | - |
| 8 | Goa | 1,657 | - | - | - | - | - | - | - |
| 9 | Gujarat | 61,432 | 13,748 | 5,908 | 5,908 | 5,908 | - | - | - |
| 10 | Haryana | 1,469,202 | 6,112 | 3,956 | 3,924 | 3,892 | 32 | - | - |
| 11 | Himachal Pradesh | 91,954 | - | - | - | - | - | - | - |
| 12 | Jharkhand | - | - | - | - | - | - | - | - |
| 13 | Karnataka | - | - | - | - | - | - | - | - |
| 14 | Kerala | 456,411 | 277,113 | 132,817 | 132,817 | 132,817 | - | - | - |
| 15 | Lakshadweep | 330 | - | | | - | - | - | - |
| 16 | Madhya Pradesh | 2,156,163 | 23,901 | 21,286 | 21,286 | 21,286 | - | - | - |
| 17 | Maharashtra | 1,049,268 | 121,236 | 58,147 | 57,191 | 56,384 | 804 | 3 | - |
| 18 | Odisha | 476,191 | 643 | - | - | - | - | - | - |
| 19 | Puducherry | 80,345 | 52,926 | 52,926 | 52,926 | 52,926 | - | - | - |
| 20 | Punjab | 134,037 | 7,250 | 2,517 | 2,510 | 2,503 | 7 | - | - |
| 21 | Rajasthan | 2,313,824 | 27,079 | 26,314 | 26,174 | 26,034 | 140 | - | - |
| 22 | Sikkim | 17,128 | 17,128 | - | - | - | - | - | - |
| 23 | Tamil Nadu | 202 | | | | - | - | - | - |
| 24 | Telangana | 1,471,436 | 526,813 | 280,053 | 278,808 | 277,612 | 1,194 | 2 | - |
| 25 | Tripura | 35,157 | 35,157 | 35,157 | 34,571 | 34,041 | 529 | 1 | - |
| 26 | West Bengal | 234,453 | - | - | - | - | - | - | - |
| | Grand Total | 12,526,426 | 1,891,447 | 1,279,998 | 1,269,724 | 1,260,678 | 8,974 | 60 | 12 |

Figure 8 - IGNOAPS De-Duplication

5.3.2.4 Aadhaar-enabled Verification (IGNOAPS)

As shown in *figure 9* below, of the **1,25,26,426** records received from NIC from the states, there were **18,91,447** records where Aadhaar number data field was filled in. Of these, **12,69,724** number of Aadhaars were found to be valid. Of these **12,69,724** valid Aadhaar numbers, **4,28,199** Aadhaar numbers could not be verified with UIDAI CIDR.

| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populated | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
|-------|---|--|--|---|------------------------------------|---|--|------------|
| 1 | Andaman and Nicobar Islands | - | - | | | - | - | - |
| 2 | Andhra Pradesh | 2,071,206 | 687,890 | 658,042 | 650,734 | 620,538 | 399,347 | 64.35 |
| 3 | Chandigarh | 2,887 | 2,887 | 2,875 | 2,875 | 2,875 | 2,109 | 73.36 |
| 4 | Chhatishgarh | 11,638 | - | | | - | - | |
| 5 | Dadra and Nagar Haveli | 8,206 | • | | | - | - | |
| 6 | Daman and Diu | 1,601 | 1,070 | | ٠ | - | - | |
| 7 | Delhi | 381,698 | 90,494 | | ٠ | - | - | |
| 8 | Goa | 1,657 | - | | ٠ | - | - | |
| 9 | Gujarat | 61,432 | 13,748 | 5,908 | 5,908 | 5,908 | 2,778 | 47.02 |
| 10 | Haryana | 1,469,202 | 6,112 | 3,956 | 3,924 | 2,463 | 1,896 | 76.98 |
| 11 | Himachal Pradesh | 91,954 | | - | - | - | - | |
| 12 | Jharkhand | - | | | | - | - | |
| 13 | Karnataka | - | | - | | - | - | |
| 14 | Kerala | 456,411 | 277,113 | 132,817 | 132,817 | 131,035 | 93,187 | 71.12 |
| 15 | Lakshadweep | 330 | - | | | - | - | |
| 16 | Madhya Pradesh | 2,156,163 | 23,901 | 21,286 | 21,286 | 21,286 | 8,388 | 39.41 |
| 17 | Maharashtra | 1,049,268 | 121,236 | 58,147 | 57,191 | 58,147 | 31,396 | 53.99 |
| 18 | Odisha | 476,191 | 643 | | | - | - | |
| 19 | Puducherry | 80,345 | 52,926 | 52,926 | 52,926 | 40,814 | 31,835 | 78.00 |
| 20 | Punjab | 134,037 | 7,250 | 2,517 | 2,510 | 2,157 | 1,581 | 73.30 |
| 21 | Rajasthan | 2,313,824 | 27,079 | 26,314 | 26,174 | 25,444 | 18,300 | 71.92 |
| 22 | Sikkim | 17,128 | 17,128 | | - | - | - | |
| 23 | Tamil Nadu | 202 | | | | - | - | |
| 24 | Telangana | 1,471,436 | 526,813 | 280,053 | 278,808 | 271,587 | 172,470 | 63.50 |
| 25 | Tripura | 35,157 | 35,157 | 35,157 | 34,571 | 35,157 | 25,925 | 73.74 |
| 26 | West Bengal | 234,453 | - | - | - | - | | |
| | Grand Total | 12,526,426 | 1,891,447 | 1,279,998 | 1,269,724 | 1,217,411 | 789,212 | 64.83 |

Figure 9 - IGNOAPS Verification

Aadhaar-based De-duplication & Verification

5.3.2.5 Aadhaar-enabled de-duplication (IGNWPS)

As shown in *figure 10* below, of the **49,20,727** records received from NIC from the states, there were **14,13,433** records where Aadhaar number data field was filled in. Of these, **7,47,013** number of Aadhaars were found to be valid. Of these **7,47,013** valid Aadhaar numbers, **7,36,792** Aadhaar numbers were attached to only one beneficiary, whereas **10,221** Aadhaar numbers were attached to more than one beneficiary/ same beneficiary in the database.

| | | | | | | No. of re | cords in w | hich Aadha | aar no. |
|-------|---|---|---|---|------------------------------------|-----------|------------|------------|---------|
| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populated | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | Once Only | 2<5 | 6<10 | >10 |
| 1 | Andaman and Nicobar Islands | 2,746 | - | - | - | - | - | - | - |
| 2 | Andhra Pradesh | 425,652 | 425,652 | 425,652 | 415,782 | 406,221 | 9,539 | 18 | 4 |
| 3 | Chandigarh | 2,714 | 2,714 | 2,714 | 2,714 | 2,714 | - | - | - |
| 4 | Chhatishgarh | 3,078 | - | - | - | - | - | - | - |
| 5 | Dadra and Nagar Haveli | 2,123 | 1 | - | ì | - | | - | - |
| 6 | Daman and Diu | 1,695 | 1,359 | - | - | - | - | - | - |
| 7 | Delhi | 130,426 | 14,735 | 6,606 | 6,591 | 6,576 | 15 | - | - |
| 8 | Goa | 344 | | - | - | - | - | - | - |
| 9 | Gujarat | 641 | 148 | 148 | 148 | 148 | - | - | - |
| 10 | Haryana | 601,836 | 2,718 | 2,654 | 2,642 | 2,630 | 12 | | |
| 11 | Himachal Pradesh | 23,253 | • | - | - | - | - | - | - |
| 12 | Jharkhand | - | - | - | - | - | - | - | - |
| 13 | Karnataka | 109,341 | - | - | - | - | - | - | - |
| 14 | Kerala | 885,312 | 575,723 | 165,671 | 165,671 | 165,671 | - | - | - |
| 15 | Lakshadweep | 330 | - | - | - | - | - | - | - |
| 16 | Madhya Pradesh | 724,368 | 20547 | 20547 | 20547 | 20547 | - | - | - |
| 17 | Maharashtra | - | | - | - | - | - | - | - |
| 18 | Odisha | 55,419 | - | - | - | - | - | - | - |
| 19 | Puducherry | 41,302 | 30,303 | 345 | 345 | 345 | - | - | - |
| 20 | Punjab | 14,589 | 607 | 607 | 603 | 599 | 4 | - | - |
| 21 | Rajasthan | 393,597 | 4,870 | 4,655 | 4,633 | 4611 | 22 | - | - |
| 22 | Sikkim | 697 | - | - | - | - | - | - | - |
| 23 | Tamil Nadu | 202 | - | | - | - | - | - | - |
| 24 | Telangana | 910,417 | 328,541 | 122,452 | 121,859 | 121,290 | 567 | 2 | - |
| 25 | Tripura | 416,520 | 5,516 | 5,516 | 5,478 | 5,440 | 38 | - | - |
| 26 | West Bengal | 174,125 | - | - | - | - | - | - | - |
| | Grand Total | 4,920,727 | 1,413,433 | 757,567 | 747,013 | 736,792 | 10,197 | 20 | 4 |

Figure 10 - IGNWPS De-Duplication

5.3.2.6 Aadhaar-enabled Verification (IGNWPS)

As shown in *figure 11* below, of the **49,20,727** records received from NIC from the states, there were **14,13,433** records where Aadhaar number data field was filled in. Of these, **7,47,013** number of Aadhaars were found to be valid. Of these **7,47,013** valid Aadhaar numbers, **2,23,045** records could not be verified with the UIDAI CIDR.



| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populated | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
|-------|---|---|---|---|------------------------------------|---|--|---------|
| 1 | Andaman and Nicobar Islands | 2,746 | П | - | = | 0 | 0 | |
| 2 | Andhra Pradesh | 425,652 | 425,652 | 425,652 | 415,782 | 409925 | 288337 | 70.34 |
| 3 | Chandigarh | 2,714 | 2,714 | 2,714 | 2,714 | 2707 | 2183 | 80.64 |
| 4 | Chhatishgarh | 3,078 | П | 1 | ı | 0 | 0 | |
| 5 | Dadra and Nagar Haveli | 2,123 | П | 1 | ı | 0 | 0 | |
| 6 | Daman and Diu | 1,695 | 1,359 | 1 | ı | 0 | 0 | |
| 7 | Delhi | 130,426 | 14,735 | 6,606 | 6,591 | 2821 | 2385 | 84.54 |
| 8 | Goa | 344 | | 1 | ı | 0 | 0 | |
| 9 | Gujarat | 641 | 148 | 148 | 148 | 108 | 68 | 62.96 |
| 10 | Haryana | 601,836 | 2,718 | 2,654 | 2,642 | 2631 | 2276 | 86.51 |
| 11 | Himachal Pradesh | 23,253 | - | - | - | 0 | 0 | |
| 12 | Jharkhand | - | - | - | - | 0 | 0 | |
| 13 | Karnataka | 109,341 | ı | 1 | ı | 0 | 0 | |
| 14 | Kerala | 885,312 | 575,723 | 165,671 | 165,671 | 163486 | 116972 | 71.55 |
| 15 | Lakshadweep | 330 | П | 1 | ı | 0 | 0 | |
| 16 | Madhya Pradesh | 724,368 | 20547 | 20547 | 20547 | 20547 | 8107 | 39.46 |
| 17 | Maharashtra | = | | 1 | ı | 0 | 0 | |
| 18 | Odisha | 55,419 | ı | 1 | ı | 0 | 0 | |
| 19 | Puducherry | 41,302 | 30,303 | 345 | 345 | 330 | 280 | 84.85 |
| 20 | Punjab | 14,589 | 607 | 607 | 603 | 577 | 479 | 83.02 |
| 21 | Rajasthan | 393,597 | 4,870 | 4,655 | 4,633 | 3455 | 2471 | 71.52 |
| 22 | Sikkim | 697 | = | - | = | 0 | 0 | |
| 23 | Tamil Nadu | 202 | = | | = | 0 | 0 | |
| 24 | Telangana | 910,417 | 328,541 | 122,452 | 121,859 | 119330 | 80446 | 67.41 |
| 25 | Tripura | 416,520 | 5,516 | 5,516 | 5,478 | 4971 | 3839 | 77.23 |
| 26 | West Bengal | 174,125 | - | - | - | 0 | 0 | |
| | Grand Total | 4,920,727 | 1,413,433 | 757,567 | 747,013 | 730,888 | 507,843 | 69 |

Figure 11 - IGNWPS Verification

5.3.3 Scholarship Schemes (Scheduled Caste, Scheduled Tribe & Minorities)

Following is our observation after Aadhaar-based de-duplication and verification exercise:

| Scheduled Caste Scholarship | | | | | | |
|---|-----------|--|--|--|--|--|
| Total records received with/without Aadhaar number | 23,57,449 | | | | | |
| Total records received with valid and distinct UIDs | 3,20,810 | | | | | |
| UIDs occurring more than ONCE | 15,923 | | | | | |
| UIDs Requiring Field Verification | 32,327 | | | | | |

Table 5 - SC Scholarship Summary

| Scheduled Tribe Scholarship | | | | | | | |
|---|-----------|--|--|--|--|--|--|
| Total records received with/without Aadhaar number | 11,68,456 | | | | | | |
| Total records received with valid and distinct UIDs | 1,09,675 | | | | | | |
| UIDs occurring more than ONCE | 3,153 | | | | | | |
| UIDs Requiring Field Verification | 15,769 | | | | | | |

Table 6 - ST Scholarship Summary



| Minorities Scholarship | | | | | | | |
|---|----------|--|--|--|--|--|--|
| Total records received with/without Aadhaar number | 6,27,115 | | | | | | |
| Total records received with valid and distinct UIDs | 2,19,577 | | | | | | |
| UIDs occurring more than ONCE | 626 | | | | | | |
| UIDs Requiring Field Verification | 24,688 | | | | | | |

Table 7 - Minorities Scholarship Summary

5.3.3.1 Aadhaar-enabled De-Duplication (SC Scholarship)

As shown in *figure 12* below, of the 23,57,449 records received from NIC from the states, there were 5,78,098 records where Aadhaar number data field was filled in. Of these, 3,36,851 number of Aadhaars were found to be valid. Of these 3,36,851 valid Aadhaar numbers, 2,89,086 Aadhaar numbers were attached to only one beneficiary, whereas 15,923 Aadhaar numbers were attached to more than one beneficiary/ same beneficiary in the database.

| | | No. of | No. of | No. of | No. of | No. of re | cords in w | hich Aadh | aar no. |
|-------|---|-------------|-------------------------------------|---|--------------------------------|-----------|------------|-----------|---------|
| S.No. | State Name (All States in alphabetical order) | received at | records with Aadhaar field | records with Valid Aadhaar numbers | Distinct Aadhaar numbers | Once Only | 2<5 | 6<10 | > 10 |
| 1 | Andaman and Nicobar Islands | - | 1 | - | - | - | - | - | - |
| 2 | Andhra Pradesh | - | 1 | - | - | - | - | - | - |
| 3 | Chandigarh | 1,684 | 1,684 | 1,684 | 1,684 | 1,684 | - | - | - |
| 4 | Chhatishgarh | 2,609 | 1 | - | 1 | - | - | - | 1 |
| 5 | Dadra and Nagar Haveli | 53 | - | - | - | - | - | - | - |
| 6 | Daman and Diu | 49 | 49 | - | 1 | - | - | - | - |
| 7 | Delhi | 15,197 | 14,597 | - | 1 | - | - | - | 1 |
| 8 | Goa | 321 | 160 | 146 | 145 | 144 | 1 | - | - |
| 9 | Gujarat | 19,359 | 11,660 | 2,084 | 2,009 | 1,940 | 69 | - | - |
| 10 | Haryana | 623,124 | 24,535 | 15,931 | 15,801 | - | - | - | - |
| 11 | Himachal Pradesh | 32,569 | 31,790 | 31,366 | 15,692 | - | 15,692 | - | - |
| 12 | Jharkhand | - | - | - | - | - | - | - | - |
| 13 | Karnataka | 223,843 | 27,325 | 27,268 | 27,255 | 27,242 | 13 | - | - |
| 14 | Kerala | - | - | - | - | - | - | - | - |
| 15 | Lakshadweep | - | - | - | | - | - | - | - |
| 16 | Madhya Pradesh | 175,980 | | - | - | - | - | - | - |
| 17 | Maharashtra | 596,273 | | - | - | - | - | - | - |
| 18 | Odisha | 59,427 | 6,146 | 540 | 540 | 540 | - | - | - |
| 19 | Puducherry | 2,374 | 1,704 | 1,893 | 1,893 | 1,893 | - | - | - |
| 20 | Punjab | 197,155 | 105,575 | 83,553 | 83,495 | 83,437 | 58 | - | - |
| 21 | Rajasthan | 94,320 | 61,882 | 8,164 | 8,162 | 8,160 | 2 | - | - |
| 22 | Sikkim | 211 | ı | - | ı | - | - | - | - |
| 23 | Tamil Nadu | 30 | - | - | - | - | - | - | - |
| 24 | Telangana | 273,061 | 269,733 | 135,617 | 135,617 | 135,617 | - | - | - |
| 25 | Tripura | 10,438 | | 7,701 | 7,632 | 7,563 | 69 | - | - |
| 26 | West Bengal | 29,372 | 21,258 | 20,904 | 20,885 | 20,866 | 19 | - | - |
| | Grand Total | 2,357,449 | 578,098 | 336,851 | 320,810 | 289,086 | 15,923 | - | - |

Figure 12 - SC Scholarship De-Duplication

5.3.3.2 Aadhaar-enabled Verification (SC Scholarship)

As shown in *figure 13* below, of the 23,57,449 records received from NIC from the states, there were 5,78,098 records where Aadhaar number data field was filled in. Of these, 3,36,851 number of Aadhaars were found to be valid. Of these 3,36,851 valid Aadhaar numbers, 32,327 records could not be verified with the UIDAI CIDR.

| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar | No. of records with Valid Aadhaar | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo | Match % |
|-------|---|--|--------------------------------------|--|--|--|---|---------|
| 1 | Andaman and Nicobar Islands | ı | - | - | - | 0 | 0 | |
| 2 | Andhra Pradesh | - | - | - | - | 0 | 0 | |
| 3 | Chandigarh | 1,684 | 1,684 | 1,684 | 1,684 | 1636 | 1500 | 91.69 |
| 4 | Chhatishgarh | 2,609 | - | - | - | 0 | 0 | |
| 5 | Dadra and Nagar Haveli | 53 | - | - | - | 0 | 0 | |
| 6 | Daman and Diu | 49 | 49 | - | - | 0 | 0 | |
| 7 | Delhi | 15,197 | 14,597 | - | - | 0 | 0 | |
| 8 | Goa | 321 | 160 | 146 | 145 | 190 | 176 | 92.63 |
| 9 | Gujarat | 19,359 | 11,660 | 2,084 | 2,009 | 1978 | 1106 | 55.92 |
| 10 | Haryana | 623,124 | 24,535 | 15,931 | 15,801 | 15931 | 15931 | 100.00 |
| 11 | Himachal Pradesh | 32,569 | 31,790 | 31,366 | 15,692 | 31366 | 28543 | 91.00 |
| 12 | Jharkhand | - | - | - | - | 0 | 0 | |
| 13 | Karnataka | 223,843 | 27,325 | 27,268 | 27,255 | 27177 | 20216 | 74.39 |
| 14 | Kerala | ı | - | - | - | 0 | 0 | |
| 15 | Lakshadweep | - | - | - | | 0 | 0 | |
| 16 | Madhya Pradesh | 175,980 | | - | - | 0 | 0 | |
| 17 | Maharashtra | 596,273 | | - | - | 0 | 0 | |
| 18 | Odisha | 59,427 | 6,146 | 540 | 540 | 518 | 470 | 90.73 |
| 19 | Puducherry | 2,374 | 1,704 | 1,893 | 1,893 | 0 | 0 | |
| 20 | Punjab | 197,155 | 105,575 | 83,553 | 83,495 | 0 | 0 | |
| 21 | Rajasthan | 94,320 | 61,882 | 8,164 | 8,162 | 8164 | 6862 | 84.05 |
| 22 | Sikkim | 211 | - | - | - | 0 | 0 | |
| 23 | Tamil Nadu | 30 | ı | 1 | - | 0 | 0 | |
| 24 | Telangana | 273,061 | 269,733 | 135,617 | 135,617 | 135092 | 115471 | 85.48 |
| 25 | Tripura | 10,438 | | 7,701 | 7,632 | 1541 | 1541 | 100.00 |
| 26 | West Bengal | 29,372 | 21,258 | 20,904 | 20,885 | 20655 | 20105 | 97.34 |
| | Grand Total | 2,357,449 | 578,098 | 336,851 | 320,810 | 244,248 | 211,921 | 87 |

Figure 13 - SC Scholarship Verification

5.3.3.3 Aadhaar-enabled De-Duplication (ST Scholarship)

As shown in *figure 14* below, of the **11,68,456** records received from NIC from the states, there were **2,26,333** records where Aadhaar number data field was filled in. Of these, **1,12,817** number of Aadhaars were found to be valid. Of these **1,12,817** valid Aadhaar



numbers, **1,06,522** Aadhaar numbers were attached to only one beneficiary, whereas **3153** Aadhaar numbers were attached to more than one beneficiary/ same beneficiary in the database.

| | | No. of | No. of | No. of | No. of | No. of re | cords in w | hich Aadh | aar no. |
|-------|---|--------------------------------------|----------------------------|----------------------------------|--------------------------------|-----------|------------|-----------|---------|
| S.No. | State Name (All States in alphabetical order) | records received at NIC server | records with Aadhaar | records with Valid Aadhaar | Distinct Aadhaar numbers | Once Only | 2<5 | 6<10 | >10 |
| 1 | Andaman and Nicobar Islands | - | - | - | - | - | - | - | - |
| 2 | Andhra Pradesh | - | - | - | - | - | - | - | - |
| 3 | Chandigarh | - | 1 | - | - | - | - | 1 | - |
| 4 | Chhatishgarh | 7,606 | 1 | - | - | - | - | 1 | - |
| 5 | Dadra and Nagar Haveli | 1,707 | 1 | - | - | - | - | 1 | - |
| 6 | Daman and Diu | 8 | 8 | 2 | 2 | 2 | - | 1 | - |
| 7 | Delhi | - | 1 | - | - | | - | 1 | - |
| 8 | Goa | 3,176 | 2,857 | 2,857 | 2,853 | 2,849 | 4 | 1 | - |
| 9 | Gujarat | 47,076 | 22,330 | 1,840 | 1,832 | 1,824 | 8 | 1 | - |
| 10 | Haryana | - | • | - | - | | - | • | - |
| 11 | Himachal Pradesh | 6,677 | 6,478 | 6,253 | 3,132 | - | 3,132 | - | - |
| 12 | Jharkhand | - | - | - | - | | - | - | - |
| 13 | Karnataka | 80,183 | 12,160 | 12,123 | 12,118 | 12,113 | 5 | - | - |
| 14 | Kerala | - | - | - | - | | - | - | - |
| 15 | Lakshadweep | 2,143 | - | | | | - | - | - |
| 16 | Madhya Pradesh | 165,159 | | - | - | | - | - | - |
| 17 | Maharashtra | 394,475 | | - | - | | - | - | - |
| 18 | Odisha | 30,874 | 2,123 | 413 | 413 | 413 | - | - | - |
| 19 | Puducherry | - | 1 | - | - | | - | 1 | - |
| 20 | Punjab | - | 1 | - | - | | - | 1 | - |
| 21 | Rajasthan | 58,775 | 36,982 | 6,476 | 6,473 | 6,470 | 3 | 1 | - |
| 22 | Sikkim | 1,976 | 1 | - | - | - | - | ı | - |
| 23 | Tamil Nadu | 29 | 1 | - | - | - | - | ı | - |
| 24 | Telangana | 137,125 | 134,696 | 74,164 | 74,164 | 74,164 | - | ı | - |
| 25 | Tripura | 226,835 | 8,366 | 8,366 | 8,366 | 8,366 | - | ı | - |
| 26 | West Bengal | 4,632 | 333 | 323 | 322 | 321 | 1 | | |
| | Grand Total | 1,168,456 | 226,333 | 112,817 | 109,675 | 106,522 | 3,153 | • | - |

Figure 14 - ST Scholarship De-Duplication

5.3.3.4 Aadhaar-enabled Verification (ST Scholarship)

As shown in *figure 15* below, of the **11,68,456** records received from NIC from the states, there were **2,26,333** records where Aadhaar number data field was filled in. Of these, **1,12,817** number of Aadhaars were found to be valid. Of these **1,12,817** valid Aadhaar numbers **15,769** records could not be verified with the UIDAI CIDR.



| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populated | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
|-------|---|--|--|--|--|---|---|---------|
| 1 | Andaman and Nicobar Islands | - | - | - | - | 0 | 0 | |
| 2 | Andhra Pradesh | - | - | - | - | 0 | 0 | |
| 3 | Chandigarh | - | - | - | - | 0 | 0 | |
| 4 | Chhatishgarh | 7,606 | - | - | - | 0 | 0 | |
| 5 | Dadra and Nagar Haveli | 1,707 | - | - | - | 0 | 0 | |
| 6 | Daman and Diu | 8 | 8 | 2 | 2 | 2 | 0 | 0.00 |
| 7 | Delhi | - | - | - | - | 0 | 0 | |
| 8 | Goa | 3,176 | 2,857 | 2,857 | 2,853 | 2830 | 2665 | 94.17 |
| 9 | Gujarat | 47,076 | 22,330 | 1,840 | 1,832 | 964 | 685 | 71.06 |
| 10 | Haryana | - | - | - | - | 0 | 0 | |
| 11 | Himachal Pradesh | 6,677 | 6,478 | 6,253 | 3,132 | 6253 | 5884 | 94.10 |
| 12 | Jharkhand | - | - | - | - | 0 | 0 | |
| 13 | Karnataka | 80,183 | 12,160 | 12,123 | 12,118 | 12072 | 8923 | 73.91 |
| 14 | Kerala | - | - | - | - | 0 | 0 | |
| 15 | Lakshadweep | 2,143 | - | | | 0 | 0 | |
| 16 | Madhya Pradesh | 165,159 | | - | - | 0 | 0 | |
| 17 | Maharashtra | 394,475 | | - | - | 0 | 0 | r . |
| 18 | Odisha | 30,874 | 2,123 | 413 | 413 | 394 | 352 | 89.34 |
| 19 | Puducherry | _ | - | - | - | 0 | 0 | ĭ. |
| 20 | Punjab | - | - | - | - | 0 | 0 | |
| 21 | Rajasthan | 58,775 | 36,982 | 6,476 | 6,473 | 6379 | 5353 | 83.92 |
| 22 | Sikkim | 1,976 | - | - | - | 0 | 0 | |
| 23 | Tamil Nadu | 29 | - | - | - | 0 | 0 | |
| 24 | Telangana | 137,125 | 134,696 | 74,164 | 74,164 | 73827 | 63102 | 85.47 |
| 25 | Tripura | 226,835 | 8,366 | 8,366 | 8,366 | 8202 | 8202 | 100.00 |
| 26 | West Bengal | 4,632 | 333 | 323 | 322 | 321 | 309 | 96.26 |
| | Grand Total | 1,168,456 | 226,333 | 112,817 | 109,675 | 111,244 | 95,475 | 86 |

Figure 15 - ST Scholarship Verification

5.3.3.5 Aadhaar-enabled De-Duplication (Minorities Scholarship)

As shown in *figure 16* below, of the **6,27,115** records received from NIC from the states, there were **3,47,786** records where Aadhaar number data field was filled in. Of these, **2,20,031** number of Aadhaars were found to be valid. Of these **2,20,031** valid Aadhaar numbers, **2,18,641** Aadhaar numbers were attached to only one beneficiary, whereas **626** Aadhaar numbers were attached to more than one beneficiary/ same beneficiary in the database.



| | | | No. of | | | No. of record | ls in which | Aadhaar n | o. occurrs |
|-------|---|---|--|---|--|---------------|-------------|-----------|------------|
| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | records with Aadhaar field populated | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | Once Only | 2<5 | 6<10 | > 10 |
| 1 | Andaman and Nicobar Islands | - | - | - | - | - | - | - | - |
| 2 | Andhra Pradesh | - | - | - | - | - | - | - | - |
| 3 | Chandigarh | 290 | 290 | 290 | 290 | 290 | - | - | - |
| 4 | Chhatishgarh | 61 | 55 | - | - | - | - | - | - |
| 5 | Dadra and Nagar Haveli | 26 | - | - | - | - | - | - | - |
| 6 | Daman and Diu | - | - | ı | - | - | - | - | - |
| 7 | Delhi | - | - | 1 | - | - | - | - | - |
| 8 | Goa | 115 | 114 | 110 | 110 | 110 | 1 | - | - |
| 9 | Gujarat | 13,325 | 4,886 | 3,555 | 3,496 | 3,439 | 57 | | |
| 10 | Haryana | 1,109 | 357 | 320 | 320 | 320 | - | - | - |
| 11 | Himachal Pradesh | 594 | 540 | 498 | 310 | - | - | - | - |
| 12 | Jharkhand | 11,007 | 8,524 | - | - | - | - | - | - |
| 13 | Karnataka | 1,272 | 359 | 354 | 353 | 352 | 1 | - | - |
| 14 | Kerala | 59,182 | 39468 | 39468 | 39468 | 39468 | | - | - |
| 15 | Lakshadweep | - | - | | - | - | - | - | - |
| 16 | Madhya Pradesh | 21,236 | 6,554 | 4,624 | 4,624 | 4,259 | 365 | - | - |
| 17 | Maharashtra | 60,311 | - | - | - | - | - | - | - |
| 18 | Odisha | 937 | 458 | 389 | 385 | 383 | 2 | - | - |
| 19 | Puducherry | 68 | 58 | 31 | 31 | 31 | | | |
| 20 | Punjab | 76,583 | 11,495 | 34,776 | 34,574 | 34,373 | 201 | - | - |
| 21 | Rajasthan | 8,806 | 4,904 | - | - | - | - | - | - |
| 22 | Sikkim | 367 | - | - | - | - | - | - | - |
| 23 | Tamil Nadu | 19 | - | - | - | - | - | - | - |
| 24 | Telangana | 273,035 | 269,724 | 135,616 | 135,616 | 135,616 | - | - | - |
| 25 | Tripura | 388 | - | - | - | - | - | - | - |
| 26 | West Bengal | 98,384 | - | - | - | - | - | - | - |
| | Grand Total | 627,115 | 347,786 | 220,031 | 219,577 | 218,641 | 626 | - | - |

Figure 16 - Minorities Scholarship De-duplication

5.3.3.6 Aadhaar-enabled Verification (Minorities Scholarship)

As shown in *figure 17* below, of the **6,27,115** records received from NIC from the states, there were **3,47,786** records where Aadhaar number data field was filled in. Of these, **2,20,031** number of Aadhaars were found to be valid. Of these **2,20,031** valid Aadhaar numbers, **24,688** records could not be verified with the UIDAI CIDR.



| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populate | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
|-------|---|---|---|---|--|---|---|---------|
| 1 | Andaman and Nicobar Islands | - | - | - | - | 0 | 0 | |
| 2 | Andhra Pradesh | - | - | - | - | 0 | 0 | |
| 3 | Chandigarh | 290 | 290 | 290 | 290 | 277 | 247 | 89.17 |
| 4 | Chhatishgarh | 61 | 55 | - | - | 0 | 0 | |
| 5 | Dadra and Nagar Haveli | 26 | - | - | - | 0 | 0 | |
| 6 | Daman and Diu | - | • | - | | 0 | 0 | |
| 7 | Delhi | - | - | - | - | 0 | 0 | |
| 8 | Goa | 115 | 114 | 110 | 110 | 109 | 104 | 95.41 |
| 9 | Gujarat | 13,325 | 4,886 | 3,555 | 3,496 | 3010 | 2068 | 68.70 |
| 10 | Haryana | 1,109 | 357 | 320 | 320 | 297 | 288 | 96.97 |
| 11 | Himachal Pradesh | 594 | 540 | 498 | 310 | 494 | 476 | 96.36 |
| 12 | Jharkhand | 11,007 | 8,524 | - | - | 0 | 0 | |
| 13 | Karnataka | 1,272 | 359 | 354 | 353 | 350 | 235 | 67.14 |
| 14 | Kerala | 59,182 | 39468 | 39468 | 39468 | 39468 | 36514 | 92.52 |
| 15 | Lakshadweep | - | - | | - | 0 | 0 | |
| 16 | Madhya Pradesh | 21,236 | 6,554 | 4,624 | 4,624 | 0 | 0 | |
| 17 | Maharashtra | 60,311 | - | - | - | 1 | 0 | |
| 18 | Odisha | 937 | 458 | 389 | 385 | 342 | 311 | 90.94 |
| 19 | Puducherry | 68 | 58 | 31 | 31 | 30 | 21 | 70.00 |
| 20 | Punjab | 76,583 | 11,495 | 34,776 | 34,574 | 34167 | 33211 | 97.20 |
| 21 | Rajasthan | 8,806 | 4,904 | - | - | 0 | 0 | |
| 22 | Sikkim | 367 | - | - | - | 0 | 0 | |
| 23 | Tamil Nadu | 19 | - | - | = | 0 | 0 | |
| 24 | Telangana | 273,035 | 269,724 | 135,616 | 135,616 | 135090 | 115471 | 85.48 |
| 25 | Tripura | 388 | - | - | - | 0 | 0 | |
| 26 | West Bengal | 98,384 | - | - | - | 0 | 0 | |
| | Grand Total | 627,115 | 347,786 | 220,031 | 219,577 | 213,634 | 188,946 | 88 |

Figure 17 - Minorities Scholarship Verification

5.3.4 LPG

| LI | PG |
|---|-------------|
| Total records received with/without Aadhaar number | 9,71,63,551 |
| Total records received with valid and distinct UIDs | 3,92,87,825 |
| UIDs occurring more than ONCE | 1,25,922* |
| UIDs Requiring Field Verification | 74,97,863 |

Table 8 - LPG Summary

^{*} After discussion with Ministry of Petroleum, it is learnt that these records were uploaded more than once due to technical errors.

Aadhaar-based De-duplication & Verification

5.3.4.1 Aadhaar-enabled De-Duplication

As shown in *figure 18* below, of the **9,71,63,551** records received from NIC from the states, there were **3,95,83,061** records where Aadhaar number data field was filled in. Of these, **3,95,83,061** number of Aadhaars were found to be valid. Of these **3,95,83,061** valid Aadhaar numbers, **3,91,61,903** Aadhaar numbers were attached to only one beneficiary, whereas **1,25,922** Aadhaar numbers were attached to more than one beneficiary/ same beneficiary in the database.

| | | | No. of | No. of records | No. of | No. of records | in which Aadhaa | r no. occur | rs more |
|-------|-----------------------|---|--|----------------------------------|--------------------------------|----------------|-----------------|--------------|---------|
| S.No. | OMC wise | No. of records received at NIC server | records with Aadhaar field populated | with Valid Aadhaar numbers | Distinct Aadhaar numbers | Once Only | 2<5 | 6<10 | >10 |
| 1 | BPCL | 26,350,164 | 11,566,744 | 11,566,744 | 11,566,743 | 11,566,743 | 0 | 0 | 0 |
| 2 | HPCL | 27,482,855 | 11,941,183 | 11,941,183 | 11,645,948 | 11,520,026 | 124,856 | 1,065 | 1 |
| 3 | IOCL | 43,330,532 | 16,075,134 | 16,075,134 | 16,075,134 | 16,075,134 | 0 | 0 | 0 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | No. of records | No. of | No. of records | No. of | No. of records | in which Aadhaa | ır no. occur | rs more |
| S.No. | OMC wise | received at NIC server | records with Aadhaar field | with Valid Aadhaar | Distinct Aadhaar | Once Only | 2 | 3 | >10 |
| 1 | Combined / Across OMC | 97,163,551 | 39,583,061 | 39,583,061 | 39,287,825 | 39,161,903 | 124,856 | 1,065 | 1 |

Figure 18 - LPG De-Duplication

5.3.4.2 Aadhaar-enabled De-Duplication

As shown in *figure 19* below, of the **9,71,63,551** records received from NIC from the states, there were **3,95,83,061** records where Aadhaar number data field was filled in. Of these, **3,95,83,061** number of Aadhaars were found to be valid. Of these **3,95,83,061** valid Aadhaar numbers, **74,97,863** records could not be verified with the UIDAI CIDR.

| S.No. | OMC wise | No. of records received at NIC server | No. of records with Aadhaar field populated | received at NIC with Aadhaar Server field populated numbers No. of Distinct Sent for aut | | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
|-------|-----------------------|---|---|--|------------------------------------|---|-------------------------------------|---------|
| 1 | BPCL | 26,350,164 | 11,566,744 | 11,566,744 | 11,566,743 | 11,432,359 | 9,294,639 | 81% |
| 2 | HPCL | 27,482,855 | 11,941,183 | 11,941,183 | 11,645,948 | 12,024,333 | 9,735,234 | 81% |
| 3 | IOCL | 43,330,532 | 16,075,134 | 16,075,134 | 16,075,134 | 15,770,601 | 12,699,557 | 81% |
| | | | | | | | | |
| | | | | | | | | |
| S.No. | OMC wise | No. of records received at NIC server | No. of records with Aadhaar field populated | No. of records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
| 1 | Combined / Across OMC | 97,163,551 | 39,583,061 | 39,583,061 | 39,287,825 | 39,227,293 | 31,729,430 | 80.89 |

Figure 19 - LPG Verification

Aadhaar-based De-duplication & Verification

5.3.5 Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS)

Following is our observation after Aadhaar-based de-duplication and verification exercise:

| MGNREGS | | | | | |
|---|--------------|--|--|--|--|
| Total records received with/without Aadhaar number | 12,18,55,410 | | | | |
| Total records received with valid and distinct UIDs | 73,92,887 | | | | |
| UIDs occurring more than ONCE | 67,637 | | | | |
| UIDs Requiring Field Verification | 17,72,494 | | | | |

Table 9 - MGNREGS Summary

5.3.5.1 Aadhaar-enabled De-Duplication

As shown in *figure 20* below, of the **12,18,55,410** records received from NIC from the states, there were **1,75,87,841** records where Aadhaar number data field was filled in. Of these, **74,72,518** number of Aadhaars were found to be valid. Of these **74,72,518** valid Aadhaar numbers, **73,25,250** Aadhaar numbers were attached to only one beneficiary, whereas **67,637** Aadhaar numbers were attached to more than one beneficiary/ same beneficiary in the database.

| | | | | No. of | | No. of records in which Aadhaar no. occurrs | | | |
|-------|---|---|---|---|--|---|--------|------|------|
| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field populated | records with Valid Aadhaar numbers | No. of Distinct Aadhaar numbers | Once Only | 2<5 | 6<10 | > 10 |
| 1 | Andaman and Nicobar Islands | - | - | - | , | - | - | | - |
| 2 | Andhra Pradesh | 18,931,376 | 6,144,209 | | ı | - | | - | - |
| 3 | Chandigarh | - | - | • | ı | - | | - | - |
| 4 | Chhatishgarh | 1,272,443 | - | • | ı | - | | - | - |
| 5 | Dadra and Nagar Haveli | 1,467 | - | • | ı | - | | - | - |
| 6 | Daman and Diu | - | - | • | ı | - | | - | - |
| 7 | Delhi | - | - | • | ı | - | | - | - |
| 8 | Goa | 44,321 | 4,358 | 4,358 | 4,358 | 4,358 | | - | - |
| 9 | Gujarat | 2,905,974 | 26,448 | 26,448 | 26,448 | 26,448 | | - | - |
| 10 | Haryana | 1,555,926 | 297,200 | 249,740 | 249,740 | 249,740 | - | - | - |
| 11 | Himachal Pradesh | 2,249,265 | 1,066,166 | 1,024,135 | 1,024,135 | 1,024,135 | | - | - |
| 12 | Jharkhand | 8,265,701 | 2,095,573 | 2,092,364 | 2,092,364 | 2,092,364 | | - | - |
| 13 | Karnataka | - | - | • | ı | - | | - | - |
| 14 | Kerala | 4,152,503 | 2,592,031 | • | ı | - | | - | - |
| 15 | Lakshadweep | 18,006 | - | | ı | - | | - | - |
| 16 | Madhya Pradesh | 46,834,595 | - | - | - | - | - | - | - |
| 17 | Maharashtra | 6,085,566 | - | - | - | - | - | - | - |
| 18 | Odisha | 4,391,310 | 4,242 | - | - | - | - | - | - |
| 19 | Puducherry | 322,685 | 114,276 | • | ı | - | | - | - |
| 20 | Punjab | 1,762,960 | 429,488 | 6,342 | 6,342 | 6,342 | - | - | - |
| 21 | Rajasthan | - | - | - | - | - | - | - | - |
| 22 | Sikkim | 98,154 | 62,944 | - | - | - | - | - | - |
| 23 | Tamil Nadu | 65,534 | - | - | - | - | - | - | - |
| 24 | Telangana | 15,540,647 | 4,349,612 | 3,675,996 | 3,675,996 | 3,675,996 | - | - | - |
| 25 | Tripura | 855,980 | 385,240 | 385,240 | 305,609 | 237,972 | 67,625 | 9 | 3 |
| 26 | West Bengal | 6,500,997 | 16,054 | 7,895 | 7,895 | 7,895 | - | - | - |
| | Grand Total | 121,855,410 | 17,587,841 | 7,472,518 | 7,392,887 | 7,325,250 | 67,625 | 9 | 3 |

Figure 20 - MGNREGS De-Duplication

आधार

Aadhaar-based De-duplication & Verification

5.3.5.2 Aadhaar-enabled Verification

As shown in *figure 21* below, of the **12,18,55,410** records received from NIC from the states, there were **1,75,87,841** records where Aadhaar number data field was filled in. Of these, **74,72,518** number of Aadhaars were found to be valid. Of these **74,72,518** valid Aadhaar numbers, **17,72,494** records could not be verified with the UIDAI CIDR.

| S.No. | State Name (All States in alphabetical order) | No. of records received at NIC server | No. of records with Aadhaar field | No. of records with Valid Aadhaar | No. of Distinct Aadhaar numbers | No. of records sent for demo auth | No. of matched records in demo auth | Match % |
|-------|---|--|--|--|--|--|--|---------|
| 1 | Andaman and Nicobar Islands | - | - | - | - | | | |
| 2 | Andhra Pradesh | 18,931,376 | 6,144,209 | - | - | | | |
| 3 | Chandigarh | 1 | - | - | - | | | |
| 4 | Chhatishgarh | 1,272,443 | - | - | - | | | |
| 5 | Dadra and Nagar Haveli | 1,467 | - | 1 | • | | | |
| 6 | Daman and Diu | ı | - | 1 | • | | | |
| 7 | Delhi | ı | - | 1 | • | | | |
| 8 | Goa | 44,321 | 4,358 | 4,358 | 4,358 | 4,340 | 3,820 | 88 |
| 9 | Gujarat | 2,905,974 | 26,448 | 26,448 | 26,448 | 26,372 | 16,684 | 63 |
| 10 | Haryana | 1,555,926 | 297,200 | 249,740 | 249,740 | 248,636 | 213,167 | 86 |
| 11 | Himachal Pradesh | 2,249,265 | 1,066,166 | 1,024,135 | 1,024,135 | 1,020,017 | 838,418 | 82 |
| 12 | Jharkhand | 8,265,701 | 2,095,573 | 2,092,364 | 2,092,364 | 2,080,983 | 1,432,251 | 69 |
| 13 | Karnataka | ı | - | 1 | • | | | |
| 14 | Kerala | 4,152,503 | 2,592,031 | 1 | • | | | |
| 15 | Lakshadweep | 18,006 | - | ı | • | | | |
| 16 | Madhya Pradesh | 46,834,595 | - | 1 | • | | | |
| 17 | Maharashtra | 6,085,566 | - | 1 | • | | | |
| 18 | Odisha | 4,391,310 | 4,242 | 1 | • | | | |
| 19 | Puducherry | 322,685 | 114,276 | 1 | • | | | |
| 20 | Punjab | 1,762,960 | 429,488 | 6,342 | 6,342 | - | - | |
| 21 | Rajasthan | ı | - | - | • | | | |
| 22 | Sikkim | 98,154 | 62,944 | - | - | | | |
| 23 | Tamil Nadu | 65,534 | - | - | - | | | |
| 24 | Telangana | 15,540,647 | 4,349,612 | 3,675,996 | 3,675,996 | 3,657,586 | 2,761,981 | 76 |
| 25 | Tripura | 855,980 | 385,240 | 385,240 | 305,609 | - | - | |
| 26 | West Bengal | 6,500,997 | 16,054 | 7,895 | 7,895 | 7,884 | 7,003 | 89 |
| | Grand Total | 121,855,410 | 17,587,841 | 7,472,518 | 7,392,887 | 7,045,818 | 5,273,324 | 75 |

Figure 21 - MGNREGS Verification

6 PART C: Conclusion

The exercise of verification of data from the states pertaining to various benefit schemes has been completed in record time. This has been made possible due to the concerted efforts of the Planning Commission, the State Governments, the NIC and the UIDAI and various other stake holders.

Based on the verification exercise the following conclusions can be drawn:

- Demographic authentication provides acceptable results for verification of data at the first level as screening process.
- An average success rate of 79.17 % (Range of 64% 88%) across schemes and states is a
 positive start to a hitherto untested method
- Success in demographic authentication is dependent on the quality of data collection; even a small error can result in a false reject.
- Data quality for demographic authentication demands uniformity of the format for data collection, fields included in the data and the order in which the data is presented and stored. It was noticed during the exercise that the data quality and presentation were inconsistent resulting in huge manual intervention to clean up the data before processing for verification.
- Further enhancement of verification on completion of the first level of demographic authentication can be achieved through biometric authentication/verification of the residents whose demographic authentication has failed.
- The PoC of the Non-seeded data indicates that there are significant percentage of people among the non-seeded data who have valid Aadhaar. States/Departments may target these groups of people and get seeding their Aadhaar numbers done into the schemes' databases.



7 Annexures

Annexure I - Aadhaar Saturation in 300 districts (State-wise, district-wise)

| | Aadhaar sa | aturation District wise | e(Descending | order) | |
|------|---------------------------|--------------------------|--------------|------------------------------|--------------------------|
| S.No | State | District | Population | Aadhaar saturation no. | % Aadhaar Saturation* |
| 1 | Andaman & Nicobar_Islands | North& Middle Andaman | 1,05,539 | 1,17,642 | 111.5% |
| 2 | Andhra_Pradesh | Srikakulam | 26,99,471 | 26,81,518 | 99.3% |
| 3 | Andhra_Pradesh | East_Godavari | 51,51,549 | 50,11,305 | 97.3% |
| 4 | Andhra_Pradesh | Anantapur | 40,83,315 | 39,62,909 | 97.1% |
| 5 | Andhra_Pradesh | Chittoor | 41,70,468 | 39,64,962 | 95.1% |
| 6 | Andhra_Pradesh | Guntur | 48,89,230 | 45,68,966 | 93.4% |
| 7 | Andhra_Pradesh | West_Godavari | 39,34,782 | 36,62,623 | 93.1% |
| 8 | Andhra_Pradesh | Krishna | 45,29,009 | 41,72,279 | 92.1% |
| 9 | Andhra_Pradesh | Prakasam | 33,92,764 | 31,32,531 | 92.3% |
| 10 | Andhra_Pradesh | Visakhapatnam | 42,88,113 | 39,02,513 | 91.0% |
| 11 | Andhra_Pradesh | Cuddapah | 28,84,524 | 26,19,125 | 90.8% |
| 12 | Andhra_Pradesh | Kurnool | 40,46,601 | 35,65,146 | 88.1% |
| 13 | Andhra_Pradesh | Nellore | 29,66,082 | 26,17,589 | 88.3% |
| 14 | Andhra_Pradesh | Vizianagaram | 23,42,868 | 20,56,920 | 87.8% |
| 15 | Chandigarh | Chandigarh | 10,54,686 | 9,50,265 | 90.1% |
| 16 | Chhattisgarh | Dhamtari | 7,99,199 | 5,72,341 | 71.6% |
| 17 | Chhattisgarh | Koriya | 6,59,039 | 4,66,162 | 70.7% |
| 18 | Dadra & Nagar Haveli | Dadra & Nagar Haveli | 3,42,853 | 2,08,432 | 60.8% |
| 19 | Daman_and_Diu | Diu | 52,056 | 50,607 | 97.2% |
| 20 | Delhi | Central_Delhi | 5,78,671 | 8,46,417 | 146.3% |
| 21 | Delhi | East_Delhi | 17,07,725 | 20,42,302 | 119.6% |
| 22 | Delhi | North_West_Delhi | 36,51,261 | 38,92,587 | 106.6% |
| 23 | Delhi | North_Delhi | 8,83,418 | 9,29,097 | 105.2% |
| 24 | Delhi | South_Delhi | 27,33,752 | 27,26,745 | 99.7% |
| 25 | Delhi | South West Delhi | 22,92,363 | 22,10,203 | 96.4% |
| 26 | Delhi | West_Delhi | 27,33,752 | 24,96,976 | 91.3% |
| 27 | Delhi | North_East | 22,40,749 | 19,65,503 | 87.7% |
| 28 | Goa | South_Goa | 6,39,962 | 5,74,453 | 89.8% |
| 29 | Gujarat | Junagadh | 27,42,291 | 20,77,852 | 75.8% |
| 30 | Gujarat | Valsad | 17,03,068 | 12,36,011 | 72.6% |



| 31 | Gujarat | Navsari | 13,30,711 | 9,62,928 | 72.4% |
|----|------------------|-----------------|-----------|-----------|--------|
| 32 | Gujarat | Mahesana | 20,27,727 | 14,32,937 | 70.7% |
| 33 | Gujarat | Rajkot | 37,99,770 | 26,31,417 | 69.3% |
| 34 | Gujarat | Porbandar | 5,86,062 | 3,90,101 | 66.6% |
| 35 | Gujarat | Bharuch | 15,50,822 | 9,65,308 | 62.2% |
| 36 | Gujarat | Anand | 20,90,276 | 12,72,788 | 60.9% |
| 37 | Gujarat | Jamnagar | 21,59,130 | 13,32,393 | 61.7% |
| 38 | Gujarat | Surendranagar | 17,55,873 | 10,68,787 | 60.9% |
| 39 | Haryana | Faridabad | 17,98,954 | 17,22,870 | 95.8% |
| 40 | Haryana | Ambala | 11,36,784 | 10,17,721 | 89.5% |
| 41 | Haryana | Kurukshetra | 9,64,231 | 8,24,765 | 85.5% |
| 42 | Haryana | Karnal | 15,06,323 | 12,67,272 | 84.1% |
| 43 | Haryana | Panchkula | 5,58,890 | 4,66,630 | 83.5% |
| 44 | Haryana | Yamuna_Nagar | 12,14,162 | 10,06,123 | 82.9% |
| 45 | Haryana | Sonipat | 14,80,080 | 11,89,201 | 80.3% |
| 46 | Haryana | Panipat | 12,02,811 | 9,67,059 | 80.4% |
| 47 | Haryana | Sirsa | 12,95,114 | 10,25,827 | 79.2% |
| 48 | Haryana | Kaithal | 10,72,861 | 8,43,773 | 78.6% |
| 49 | Haryana | Fatehabad | 9,41,522 | 7,34,192 | 78.0% |
| 50 | Haryana | Rewari | 8,96,129 | 6,90,653 | 77.1% |
| 51 | Haryana | Bhiwani | 16,29,109 | 12,26,554 | 75.3% |
| 52 | Haryana | Hisar | 17,42,815 | 12,95,423 | 74.3% |
| 53 | Haryana | Gurgaon | 15,14,085 | 10,87,436 | 71.8% |
| 54 | Haryana | Rohtak | 10,58,683 | 7,51,164 | 71.0% |
| 55 | Haryana | Jhajjar | 9,56,907 | 6,78,193 | 70.9% |
| 56 | Haryana | Mahendragarh | 9,21,680 | 6,47,595 | 70.3% |
| 57 | Haryana | Jind | 13,32,042 | 9,03,348 | 67.8% |
| 58 | Haryana | Palwal | 10,40,493 | 6,75,648 | 64.9% |
| 59 | Himachal_Pradesh | Hamirpur | 4,54,293 | 4,92,979 | 108.5% |
| 60 | Himachal_Pradesh | Una | 5,21,057 | 5,34,946 | 102.7% |
| 61 | Himachal_Pradesh | Bilaspur | 3,82,056 | 3,84,240 | 100.6% |
| 62 | Himachal_Pradesh | Mandi | 9,99,518 | 9,83,759 | 98.4% |
| 63 | Himachal_Pradesh | Kangra | 15,07,223 | 14,81,004 | 98.3% |
| 64 | Himachal_Pradesh | Chamba | 5,18,844 | 4,84,235 | 93.3% |
| 65 | Himachal_Pradesh | Kullu | 4,37,474 | 3,96,602 | 90.7% |
| 66 | Himachal_Pradesh | Lahul_and_Spiti | 31,528 | 27,339 | 86.7% |
| 67 | Himachal_Pradesh | Sirmaur | 5,30,164 | 4,54,202 | 85.7% |
| 68 | Himachal_Pradesh | Shimla | 8,13,384 | 6,93,852 | 85.3% |
| 69 | Himachal_Pradesh | Solan | 5,76,670 | 4,79,737 | 83.2% |
| 70 | Himachal_Pradesh | Kinnaur | 84,298 | 68,446 | 81.2% |
| 71 | Jharkhand | Lohardaga | 4,61,738 | 4,26,074 | 92.3% |
| | | | | | |



| | | - · · | | | |
|-----|-----------|---------------------|-----------|-----------|-------|
| 72 | Jharkhand | Simdega | 5,99,813 | 5,28,705 | 88.1% |
| 73 | Jharkhand | Sahibganj | 11,50,038 | 10,09,360 | 87.8% |
| 74 | Jharkhand | Pakur | 8,99,200 | 7,66,255 | 85.2% |
| 75 | Jharkhand | Gumla | 10,25,656 | 8,70,137 | 84.8% |
| 76 | Jharkhand | Khunti | 5,30,299 | 4,49,571 | 84.8% |
| 77 | Jharkhand | Hazaribag | 17,34,005 | 14,66,653 | 84.6% |
| 78 | Jharkhand | Ramgarh | 9,49,159 | 7,99,893 | 84.3% |
| 79 | Jharkhand | Jamtara | 7,90,207 | 6,64,676 | 84.1% |
| 80 | Jharkhand | Ranchi | 29,12,022 | 23,97,311 | 82.3% |
| 81 | Jharkhand | West_Singhbhum | 15,01,619 | 12,32,907 | 82.1% |
| 82 | Jharkhand | Dumka | 13,21,096 | 10,84,408 | 82.1% |
| 83 | Jharkhand | Garhwa | 13,22,387 | 10,86,193 | 82.1% |
| 84 | Jharkhand | Koderma | 7,17,169 | 5,83,769 | 81.4% |
| 85 | Jharkhand | Latehar | 7,25,673 | 5,90,501 | 81.4% |
| 86 | Jharkhand | Seraikela-Kharsawan | 10,63,458 | 8,59,776 | 80.8% |
| 87 | Jharkhand | Godda | 13,11,382 | 10,59,145 | 80.8% |
| 88 | Jharkhand | Palamu | 19,36,319 | 15,59,278 | 80.5% |
| 89 | Jharkhand | East_Singhbhum | 22,91,032 | 18,20,556 | 79.5% |
| 90 | Jharkhand | Giridih | 24,45,203 | 19,07,543 | 78.0% |
| 91 | Jharkhand | Bokaro | 20,61,918 | 16,00,057 | 77.6% |
| 92 | Jharkhand | Dhanbad | 26,82,662 | 20,35,366 | 75.9% |
| 93 | Jharkhand | Chatra | 10,42,304 | 7,73,811 | 74.2% |
| 94 | Jharkhand | Deoghar | 14,91,879 | 11,03,362 | 74.0% |
| 95 | Karnataka | Tumkur | 26,81,449 | 25,10,106 | 93.6% |
| 96 | Karnataka | Mysore | 29,94,744 | 27,97,105 | 93.4% |
| 97 | Karnataka | Dharwad | 18,46,993 | 15,96,005 | 86.4% |
| 98 | Karnataka | Udupi | 11,77,908 | 9,48,607 | 80.5% |
| 99 | Karnataka | Belgaum | 47,78,439 | 37,96,619 | 79.5% |
| 100 | Karnataka | Uttara_Kannada | 14,36,847 | 11,40,182 | 79.4% |
| 101 | Karnataka | Chamarajanagar | 10,20,962 | 8,06,065 | 79.0% |
| 102 | Karnataka | Chikmagalur | 11,37,753 | 8,82,752 | 77.6% |
| 103 | Karnataka | Hassan | 17,76,221 | 13,82,266 | 77.8% |
| 104 | Karnataka | Dakshina_Kannada | 20,83,625 | 15,94,615 | 76.5% |
| 105 | Karnataka | Bagalkot | 18,90,826 | 14,06,314 | 74.4% |
| 106 | Karnataka | Bellary | 25,32,383 | 18,58,573 | 73.4% |
| 107 | Karnataka | Bangalore | 95,88,910 | 69,26,381 | 72.2% |
| 108 | Karnataka | Ramanagar | 10,82,739 | 7,78,618 | 71.9% |
| 109 | Karnataka | Gadag | 10,65,235 | 7,61,342 | 71.5% |
| 110 | Karnataka | Bangalore_Rural | 9,87,257 | 6,96,531 | 70.6% |
| 111 | Karnataka | Mandya | 18,08,680 | 12,73,415 | 70.4% |
| 112 | Karnataka | Bijapur(KAT) | 21,75,102 | 15,40,716 | 70.8% |
| | | | | | |



| 113 | Karnataka | Davangere | 19,46,905 | 13,65,227 | 70.1% |
|-----|----------------|--------------------|-----------|-----------|-------|
| 114 | Karnataka | Bidar | 17,00,018 | 11,72,512 | 69.0% |
| 115 | Karnataka | Koppal | 13,91,292 | 9,61,454 | 69.1% |
| 116 | Karnataka | Kolar | 15,40,231 | 10,72,080 | 69.6% |
| 117 | Karnataka | Shimoga | 17,55,512 | 12,15,113 | 69.2% |
| 118 | Karnataka | Haveri | 15,98,506 | 11,28,047 | 70.6% |
| 119 | Karnataka | Chitradurga | 16,60,378 | 10,67,838 | 64.3% |
| 120 | Karnataka | Kodagu | 5,54,762 | 3,53,705 | 63.8% |
| 121 | Karnataka | Gulbarga | 25,64,892 | 15,86,333 | 61.8% |
| 122 | Kerala | Pathanamthitta | 11,95,537 | 11,63,244 | 97.3% |
| 123 | Kerala | Thrissur | 31,10,327 | 29,17,329 | 93.8% |
| 124 | Kerala | Wayanad | 8,16,558 | 7,66,452 | 93.9% |
| 125 | Kerala | Kottayam | 19,79,384 | 18,38,920 | 92.9% |
| 126 | Kerala | Palakkad | 28,10,892 | 26,11,081 | 92.9% |
| 127 | Kerala | Alappuzha | 21,21,943 | 19,64,617 | 92.6% |
| 128 | Kerala | Kozhikode | 30,89,543 | 28,54,788 | 92.4% |
| 129 | Kerala | Kannur | 25,25,637 | 23,30,798 | 92.3% |
| 130 | Kerala | Idukki | 11,07,453 | 10,02,756 | 90.5% |
| 131 | Kerala | Ernakulam | 32,79,860 | 29,59,233 | 90.2% |
| 132 | Kerala | Kollam | 26,29,703 | 23,75,192 | 90.3% |
| 133 | Kerala | Malappuram | 41,10,956 | 36,83,995 | 89.6% |
| 134 | Kerala | Kasaragod | 13,02,600 | 11,60,326 | 89.1% |
| 135 | Kerala | Thiruvananthapuram | 33,07,284 | 29,26,538 | 88.5% |
| 136 | Lakshadweep | Lakshadweep | 64,429 | 55,405 | 86.0% |
| 137 | Madhya_Pradesh | Hoshangabad | 12,40,975 | 11,30,737 | 91.1% |
| 138 | Madhya_Pradesh | Khandwa | 13,09,443 | 11,77,578 | 89.9% |
| 139 | Madhya_Pradesh | Harda | 5,70,302 | 5,06,132 | 88.7% |
| 140 | Madhya_Pradesh | Burhanpur | 7,56,993 | 6,33,926 | 83.7% |
| 141 | Madhya_Pradesh | Bhopal | 23,68,145 | 19,43,876 | 82.1% |
| 142 | Madhya_Pradesh | Jabalpur | 24,60,714 | 19,42,390 | 78.9% |
| 143 | Madhya_Pradesh | Seoni | 13,78,876 | 10,90,426 | 79.1% |
| 144 | Madhya_Pradesh | Shajapur | 15,12,353 | 11,81,635 | 78.1% |
| 145 | Madhya_Pradesh | Alirajpur | 7,28,677 | 5,49,517 | 75.4% |
| 146 | Madhya_Pradesh | Chhindwara | 20,90,306 | 15,72,084 | 75.2% |
| 147 | Madhya_Pradesh | Mandla | 10,53,522 | 7,95,381 | 75.5% |
| 148 | Madhya_Pradesh | Betul | 15,75,247 | 11,78,568 | 74.8% |
| 149 | Madhya_Pradesh | Indore | 32,72,335 | 24,42,143 | 74.6% |
| 150 | Madhya_Pradesh | Narsinghpur | 10,92,141 | 8,00,902 | 73.3% |
| 151 | Madhya_Pradesh | Balaghat | 17,01,156 | 12,47,379 | 73.3% |
| 152 | Madhya_Pradesh | Mandsaur | 13,39,832 | 9,81,713 | 73.3% |
| 153 | Madhya_Pradesh | Dindori | 7,04,218 | 5,10,387 | 72.5% |



| 154 | Madhya Pradesh | Ratlam | 14,54,483 | 10,38,733 | 71.4% |
|------------|--------------------------------|--------------------|--------------------------|--------------------------|----------------|
| 155 | · = | Dewas | 15,63,107 | | 71.4% |
| 156 | Madhya_Pradesh Madhya_Pradesh | Ujjain | 19,86,597 | 11,13,155 14,01,231 | 71.2% |
| 157 | Madhya_Pradesh | Damoh | 12,63,703 | 8,93,953 | 70.3% |
| | · – | | | | |
| 158 | Madhya_Pradesh | Satna Umaria | 22,28,619 | 15,38,190 | 69.0% 67.8% |
| 159 160 | Madhya_Pradesh Madhya_Pradesh | Katni | 6,43,579 12,91,684 | 4,36,304 | 66.8% |
| 161 | , <u>–</u> | Shahdol | | 8,62,266 | 66.9% |
| 162 | Madhya_Pradesh Madhya_Pradesh | Dhar | 10,64,989 21,84,672 | 7,12,665 14,18,484 | 64.9% |
| 163 | Madhya_Pradesh | Panna | 10,16,028 | | 64.4% |
| 164 | · – | Raisen | | 6,54,289 | |
| | Madhya_Pradesh | | 13,31,699 | 8,42,587 | 63.3% |
| 165 | Madhya_Pradesh | Sagar | 23,78,295 | 15,02,326 | 63.2% |
| 166 | Madhya_Pradesh | Neemuch | 8,25,958 | 5,20,077 | 63.0% |
| 167 | Madhya_Pradesh | Vidisha | 14,58,212 | 9,17,522 | 62.9% |
| 168 | Madhya_Pradesh | Sehore | 13,11,008 | 8,21,780 | 62.7% |
| 169 | Madhya_Pradesh | Khargone | 18,72,413 | 11,68,813 | 62.4% |
| 170 171 | Madhya_Pradesh Madhya Pradesh | Anuppur Barwani | 7,49,521 | 4,64,120 | 61.9% 62.9% |
| 171 | , = | Rewa | 13,85,659 | 8,71,483 | 61.4% |
| 172 | Madhya_Pradesh | Jhabua | 23,63,744 | 14,50,595 | 60.5% |
| 173 | Madhya_Pradesh Maharashtra | Wardha | 10,24,091 | 6,19,594 | 92.5% |
| 174 | Maharashtra | | 12,96,157 46,53,171 | 11,99,129 41,10,877 | 88.3% |
| 176 | Maharashtra | Nagpur Gondia | 13,22,331 | | 86.6% |
| 177 | Maharashtra | Mumbai | | 11,45,667 | 86.2% |
| 177 | Maharashtra | Amravati | 1,24,78,447 28,87,826 | 1,07,56,726 24,52,488 | 84.9% |
| 179 | Maharashtra | Bhandara | 11,98,810 | 10,16,692 | 84.8% |
| 180 | Maharashtra | Dhule | 20,48,781 | 17,27,322 | 84.3% |
| 181 | Maharashtra | Sangli | 28,20,575 | 23,06,144 | 81.8% |
| 182 | Maharashtra | Ahmednagar | 45,43,083 | 36,96,328 | 81.4% |
| 183 | Maharashtra | Jalgaon | 42,24,442 | 34,04,152 | 80.6% |
| 184 | Maharashtra | Kolhapur | 38,74,015 | 31,15,923 | 80.4% |
| 185 | Maharashtra | Ratnagiri | 16,12,672 | 12,99,538 | 80.6% |
| 186 | Maharashtra | Satara | 30,03,922 | 24,07,619 | 80.1% |
| 187 | Maharashtra | Chandrapur | 21,94,262 | 17,37,291 | 79.2% |
| 188 | Maharashtra | Nandurbar | 16,46,177 | 13,00,842 | 79.0% |
| 189 | Maharashtra | Beed | 21,61,250 | 17,07,972 | 79.0% |
| 190 | Maharashtra | Thane | 1,10,54,131 | 86,63,859 | 78.4% |
| 191 | Maharashtra | Nashik | 61,09,052 | 47,84,279 | 78.3% |
| 192 | Maharashtra | Raigad | 26,35,394 | 20,53,996 | 77.9% |
| 193 | Maharashtra | Buldhana | 25,88,039 | 20,03,677 | 77.4% |
| 194 | Maharashtra | Gadchiroli | 10,71,795 | 8,30,430 | 77.5% |
| | | *** | ,,. 00 | -,, .55 | |



| 195 | Maharashtra | Aurangabad | 36,95,928 | 28,42,912 | 76.9% |
|-----|-------------|-----------------------|-----------|-----------|--------|
| 196 | Maharashtra | Akola | 18,18,617 | 13,97,966 | 76.9% |
| 197 | Maharashtra | Jalna | 19,58,483 | 14,83,097 | 75.7% |
| 198 | Maharashtra | Pune | 94,26,959 | 70,92,225 | 75.2% |
| 199 | Maharashtra | Sindhudurg | 8,48,868 | 6,30,719 | 74.3% |
| 200 | Maharashtra | Latur | 24,55,543 | 17,87,251 | 72.8% |
| 201 | Maharashtra | Osmanabad | 16,60,311 | 12,04,404 | 72.5% |
| 202 | Maharashtra | Yavatmal | 27,75,457 | 19,22,971 | 69.3% |
| 203 | Maharashtra | Washim | 11,96,714 | 8,07,482 | 67.5% |
| 204 | Maharashtra | Solapur | 43,15,527 | 27,79,219 | 64.4% |
| 205 | Maharashtra | Nanded | 33,56,566 | 21,15,222 | 63.0% |
| 206 | Maharashtra | Hingoli | 11,78,973 | 7,23,821 | 61.4% |
| 207 | Odisha | Puri | 16,97,983 | 12,34,193 | 72.7% |
| 208 | Odisha | Khordha | 22,46,341 | 15,53,896 | 69.2% |
| 209 | Odisha | Dhenkanal | 11,92,948 | 8,10,897 | 68.0% |
| 210 | Odisha | Gajapati | 5,75,880 | 3,85,683 | 67.0% |
| 211 | Odisha | Cuttack | 26,18,708 | 17,46,044 | 66.7% |
| 212 | Odisha | Balangir | 16,48,574 | 11,09,450 | 67.3% |
| 213 | Odisha | Nayagarh | 9,62,215 | 5,97,366 | 62.1% |
| 214 | Odisha | Nuapada | 6,06,490 | 3,64,310 | 60.1% |
| 215 | Puducherry | Pondicherry | 9,46,600 | 9,62,928 | 101.7% |
| 216 | Puducherry | Karaikal | 2,00,314 | 1,54,771 | 77.3% |
| 217 | Punjab | Ludhiana | 34,87,882 | 33,01,837 | 94.7% |
| 218 | Punjab | Faridkot | 6,18,008 | 5,82,937 | 94.3% |
| 219 | Punjab | Jalandhar | 21,81,753 | 20,37,584 | 93.4% |
| 220 | Punjab | Rupnagar | 6,83,349 | 6,38,401 | 93.4% |
| 221 | Punjab | Nawanshahr | 6,14,362 | 5,67,348 | 92.3% |
| 222 | Punjab | Fatehgarh_Sahib | 5,99,814 | 5,44,257 | 90.7% |
| 223 | Punjab | Moga | 9,92,289 | 8,96,193 | 90.3% |
| 224 | Punjab | Barnala | 5,96,294 | 5,24,752 | 88.0% |
| 225 | Punjab | Patiala | 18,92,282 | 16,55,722 | 87.5% |
| 226 | Punjab | Sangrur | 16,54,408 | 14,47,271 | 87.5% |
| 227 | Punjab | Hoshiarpur | 15,82,793 | 13,82,390 | 87.3% |
| 228 | Punjab | Mansa | 7,68,808 | 6,70,133 | 87.2% |
| 229 | Punjab | Kapurthala | 8,17,668 | 7,12,793 | 87.2% |
| 230 | Punjab | Amritsar | 24,90,891 | 21,49,615 | 86.3% |
| 231 | Punjab | Muktsar | 9,02,702 | 7,78,745 | 86.3% |
| 232 | Punjab | Gurdaspur | 22,99,026 | 19,26,775 | 83.8% |
| 233 | Punjab | Bathinda | 13,88,859 | 11,62,557 | 83.7% |
| 234 | Punjab | Tarn_Taran | 11,20,070 | 9,31,928 | 83.2% |
| 235 | Punjab | Ajit Garh(SAS Nagar) | 9,86,147 | 7,78,745 | 79.0% |



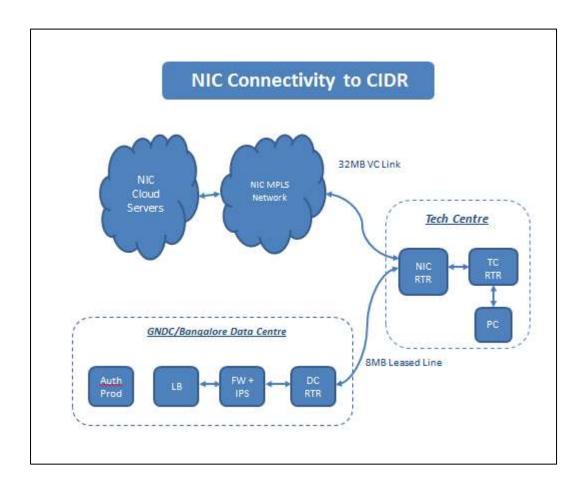
| 236 | Rajasthan | Ajmer | 25,84,913 | 19,52,558 | 75.5% |
|-----|------------|-----------------|-----------|-----------|-------|
| 237 | Rajasthan | Jhunjhunu | 21,39,658 | 15,73,213 | 73.5% |
| 238 | Rajasthan | Kota | 19,50,491 | 13,44,641 | 68.9% |
| 239 | Rajasthan | Udaipur | 30,67,549 | 21,01,898 | 68.5% |
| 240 | Rajasthan | Rajsamand | 11,58,283 | 7,75,819 | 67.0% |
| 241 | Rajasthan | Pali | 20,38,533 | 13,67,220 | 67.1% |
| 242 | Rajasthan | Alwar | 36,71,999 | 24,55,211 | 66.9% |
| 243 | Rajasthan | Jaipur | 66,63,971 | 43,99,228 | 66.0% |
| 244 | Rajasthan | Ganganagar | 19,69,520 | 12,80,072 | 65.0% |
| 245 | Rajasthan | Sikar | 26,77,737 | 17,35,440 | 64.8% |
| 246 | Rajasthan | Churu | 20,41,172 | 13,15,831 | 64.5% |
| 247 | Rajasthan | Barmer | 26,04,453 | 16,12,038 | 61.9% |
| 248 | Rajasthan | Chittorgarh | 15,44,392 | 9,49,715 | 61.5% |
| 249 | Rajasthan | Sirohi | 10,37,185 | 6,30,664 | 60.8% |
| 250 | Sikkim | West_Sikkim | 1,36,299 | 1,32,272 | 97.0% |
| 251 | Sikkim | East_Sikkim | 2,81,293 | 2,61,890 | 93.1% |
| 252 | Sikkim | South_Sikkim | 1,46,742 | 1,28,470 | 87.5% |
| 253 | Sikkim | North_Sikkim | 43,354 | 33,135 | 76.4% |
| 254 | Tamil_Nadu | Tiruchirappalli | 24,18,366 | 19,93,912 | 82.4% |
| 255 | Tamil_Nadu | Tiruvallur | 24,71,222 | 23,20,808 | 93.9% |
| 256 | Tamil_Nadu | Thoothukudi | 12,68,094 | 10,91,064 | 86.0% |
| 257 | Tamil_Nadu | Ariyalur | 7,52,481 | 5,90,145 | 78.4% |
| 258 | Tamil_Nadu | Tirunelveli | 27,13,858 | 19,96,723 | 73.6% |
| 259 | Tamil_Nadu | Virudhunagar | 19,43,309 | 14,10,379 | 72.6% |
| 260 | Tamil_Nadu | Nagapattinam | 16,14,069 | 11,57,721 | 71.7% |
| 261 | Tamil_Nadu | Madurai | 30,41,038 | 21,60,727 | 71.1% |
| 262 | Tamil_Nadu | Karur | 10,76,588 | 7,52,142 | 69.9% |
| 263 | Tamil_Nadu | Erode | 22,59,608 | 16,07,520 | 71.1% |
| 264 | Tamil_Nadu | Theni | 12,43,684 | 8,67,278 | 69.7% |
| 265 | Tamil_Nadu | Dharmapuri | 15,02,900 | 10,50,707 | 69.9% |
| 266 | Tamil_Nadu | Salem | 34,80,008 | 24,10,472 | 69.3% |
| 267 | Tamil_Nadu | Thanjavur | 24,02,781 | 16,52,995 | 68.8% |
| 268 | Tamil_Nadu | Pudukkottai | 16,18,725 | 10,99,184 | 67.9% |
| 269 | Tamil_Nadu | Vellore | 39,28,106 | 26,51,407 | 67.5% |
| 270 | Tamil_Nadu | Kanyakumari | 18,63,174 | 12,54,696 | 67.3% |
| 271 | Tamil_Nadu | Perambalur | 5,64,511 | 3,82,187 | 67.7% |
| 272 | Tamil_Nadu | Thiruvarur | 12,68,094 | 8,59,124 | 67.7% |
| 273 | Tamil_Nadu | Coimbatore | 34,72,578 | 22,82,969 | 65.7% |
| 274 | Tamil_Nadu | Dindigul | 21,61,367 | 13,74,202 | 63.6% |
| 275 | Tamil_Nadu | Viluppuram | 34,63,284 | 22,01,765 | 63.6% |
| 276 | Tamil_Nadu | Namakkal | 17,21,179 | 10,90,182 | 63.3% |



| 277 | Tamil_Nadu | Cuddalore | 26,00,880 | 16,43,760 | 63.2% |
|--------------------------|-------------|----------------|-----------|-----------|--------|
| 278 | Tamil_Nadu | Nilgiris | 7,35,071 | 4,63,226 | 63.0% |
| 279 | Tamil_Nadu | Kancheepuram | 39,90,897 | 24,75,247 | 62.0% |
| 280 | Tamil_Nadu | Ramanathapuram | 13,37,560 | 8,10,743 | 60.6% |
| 281 | Telangana | Hyderabad | 40,10,238 | 61,38,727 | 153.1% |
| 282 | Telangana | Adilabad | 27,37,738 | 27,28,271 | 99.7% |
| 283 | Telangana | Khammam | 27,98,214 | 26,48,609 | 94.7% |
| 284 | Telangana | Karimnagar | 38,11,738 | 35,77,311 | 93.8% |
| 285 | Telangana | Warangal | 35,22,644 | 32,75,629 | 93.0% |
| 286 | Telangana | Nizamabad | 25,52,073 | 23,65,860 | 92.7% |
| 287 | Telangana | Nalgonda | 34,83,648 | 31,89,148 | 91.5% |
| 288 | Telangana | Medak | 30,31,877 | 27,42,399 | 90.5% |
| 289 | Telangana | Mahbubnagar | 40,42,191 | 36,10,488 | 89.3% |
| 290 | Telangana | Ranga_Reddy | 52,96,741 | 45,65,140 | 86.2% |
| 291 | Tripura | Khowai | 3,27,391 | 3,07,025 | 93.8% |
| 292 | Tripura | Dhalai | 3,78,230 | 3,48,523 | 92.1% |
| 293 | Tripura | West_Tripura | 17,24,619 | 14,63,319 | 84.8% |
| 294 | Tripura | South_Tripura | 8,75,144 | 7,40,712 | 84.6% |
| 295 | Tripura | North_Tripura | 6,93,281 | 5,77,055 | 83.2% |
| 296 | West_Bengal | Howrah | 42,73,099 | 34,88,630 | 81.6% |
| 297 | West_Bengal | Hooghly | 55,20,389 | 44,71,392 | 81.0% |
| 298 | West_Bengal | Kolkata | 44,86,679 | 30,33,979 | 67.6% |
| 299 | West_Bengal | Murshidabad | 71,02,430 | 46,77,470 | 65.9% |
| 300 | West_Bengal | Malda | 39,97,970 | 24,99,211 | 62.5% |
| | | | | | |
| Programme and the second | - | - | | | |

^{*} The Saturation levels may exceed 100 percent due to reorganization of districts/ immigrants etc.

Annexure II - Technology architecture adopted for the exercise



To process such bulk request, the UIDAI developed an Authentication Client application on behalf of NIC, which is responsible for processing multiple Comma Separated Value files and subsequently undertake Demographic Authentication in bulk mode. Below, is the list of functionalities incorporated within the client:

- i. Read record from input CSV file and write into output CSV file.
- ii. Source & Destination path configurable for files to be processed.
- iii. Transaction name space configurable and should start with "ASD".
- iv. Make Digital signature skip as configurable.
- v. PI / PA data columns as configurable (Y/N) to be included for demo Auth.
- vi. Matching Strategy & Threshold used to be configurable ms="S" & mv="20", configurable.
- vii. O/p file name shall be "<Input filename>_RESP_<YYYYMMDD>.csv"
- viii. O/p file format is Input file columns + Final Result, err, response time, Name matched String, Gender Matched, DOB Matched, Age Matched, State Matched, Pin code Matched, Phone Matched

आधार

- ix. The "Name matched String" to contain % of words matched, count of words matched against each matching strategy (Exact | Soundex Refined | Soundex Caverphone | etc. against each record) Example: "PC:62 | EX:1 | SR:1 | SC: | SS: | IN:1".
- x. The final result (Y/N) in the o/p files to be decided by ASDV replay client, based on only mandatory name matched or not, i.e. if Name is matched and even if other optional demo attributes are NOT matched, override the Auth's 'N' response as 'Y'. Other optional fields like DOB / YOB / Age / Pin code / State name / Phone are NOT considered in final result, while attribute wise verification result is included from INFO bits (from auth response #7).
- xi. Make the column position for reading the demographic attributes as configurable to handle multiple / any dynamic format of the input CSV file. Column positions (1, 2, 3...) configurable for UID#, Name, Gender, DOB, Age, Pin code, State Name, Local Name, Language Code, phone ... to be included in the demo Auth
- xii. Data Format Validations to be included (for columns whichever are configured to be included for demo auth)...
- xiii. If column value's format for 'UID no.' is not correct (!=12 digit no OR Empty) discard the entire record, it will NOT be sent to auth server as anyway auth servers will fail them, and mark with err as "-1: Not Authenticable". The vheroff check or err 998 to be populated as per response from Auth API.
- xiv. If column value's format for 'Name' is not correct (Empty/null) discard the entire record, it will NOT be sent to auth server, and mark with err as "-2: Not Authenticable" in output file.
- xv. For Remaining fields / demo attributes if format is in valid send the record with default values. Default values for optional attributes
- xvi. Error = -1 : Aadhaar Number format invalid / Empty
- xvii. Error = 997: Invalid Aadhaar Status
- xviii. Error = 998: Invalid Aadhaar Number
- xix. I/p files should be moved to a different folder / archived. It should get moved automatically to "<source folder path>/archive" folder after processing.
- xx. The "txn" for auth request to be prepared as "ASD:<input_filename (max 20 chars)>
 <timestamp_in_millis>", so that we can identify such transactions and various
 aggregation / business reports can be generated from our backend also (Auth BI, if
 required in future)
- xxi. Logger/s: After each file is processed, we print (on console)...
 - a. Filename picked for processing
 - b. Total Records Processed for that file,
 - c. Time taken (in ms) to process each file
 - d. File moved to archived or not to monitor file archival after processing



Annexure III - Reject Codes with Reasons

| Code | Description |
|---------|--|
| 100 | Basic demographics not matching |
| 200 | Address demographics not matching |
| 510,511 | Non compliant auth API format in CIDR |
| 563 | Duplicate request |
| 567 | Unsupported characters – invalid input |
| 811 | Missing template in CIDR for a given number |
| 931,935 | Technical errors internal to auth server |
| 997 | Invalid Aadhaar status |
| 998 | Invalid Aadhaar number |
| 1 | Network Issue; URL Not found |
| -1 | Invalid Aadhaar format, Non 12 digit or any other characters |
| | inside etc or even empty |
| -2 | Name/Local Name format invalid or empty |
| -3 | Gender Format Invalid or Empty |
| -4 | Date of Birth format invalid or empty |
| -5 | State name format invalid |
| -6 | phone/ Mobile format invalid |
| -7 | Pincode format invalid |
| -8 | Age format invalid or empty |