

## ▼ Data Analysis on Electoral Bonds

By Piyush Joshi

### Importing and analysing the dataframe concerning Purchased Details

```
!wget https://www.eci.gov.in/eci-backend/public/api/download?url=LMAhAK6sOPBp%2FNFF0iRfxEB1EVSLT41NNLRjYNJJP1KivrUxbfqkDatmHy12e%2FzBiU51zPFZI5qMtjV1qgjFmSC%2FSz9GPIId9Zlf4wX9G%2FfwEDQFDuen%2FyU1C5gVqkKaRPDqHSBCdx74poKJJ7Q%3D%3D  
--2024-05-10 03:15:05-- https://www.eci.gov.in/eci-backend/public/api/download?url=LMAhAK6sOPBp%2FNFF0iRfxEB1EVSLT41NNLRjYNJJP1KivrUxbfqkDatmHy12e%2FzBiU51zPFZI5qMtjV1qgjFmSC%2FSz9GPIId9Zlf4wX9G%2FfwEDQFDuen%2FyU1C5gVqkKaRPDqHSBCdx74poKJJ7Q%3D%3D  
Resolving www.eci.gov.in (www.eci.gov.in)... 23.53.35.46, 23.53.35.39  
Connecting to www.eci.gov.in (www.eci.gov.in)|23.53.35.46|:443... connected.  
HTTP request sent, awaiting response... 403 Forbidden  
2024-05-10 03:15:05 ERROR 403: Forbidden.
```

#Since the downloaded file in pdf format we will have to convert it into csv  
!pip install tabula-py

```
import tabula  
  
# Read the PDF and extract data  
Table=tabula.read_pdf('Redemption_details.pdf',pages="all")  
  
# Convert all pages to CSV  
tabula.convert_into("Redemption_details.pdf", "Redumption_Details.csv", pages="all")  
  
import pandas as pd  
Piyush=pd.read_csv("Redumption_Details.csv")  
Piyush.head(5)  
  
Requirement already satisfied: tabula-py in /usr/local/lib/python3.10/dist-packages (2.9.0)  
Requirement already satisfied: pandas>=0.25.3 in /usr/local/lib/python3.10/dist-packages (from tabula-py) (2.0.3)  
Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (from tabula-py) (1.25.2)  
Requirement already satisfied: distro in /usr/lib/python3/dist-packages (from tabula-py) (1.7.0)  
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.10/dist-packages (from pandas>=0.25.3->tabula-py) (2.8.2)  
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas>=0.25.3->tabula-py) (2023.4)  
Requirement already satisfied: tzdata>=2022.1 in /usr/local/lib/python3.10/dist-packages (from pandas>=0.25.3->tabula-py) (2024.1)  
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.8.2->pandas>=0.25.3->tabula-py) (1.16.0)  
ERROR: Operation cancelled by user  
WARNING:tabula.backend:Error importing jppye dependencies. Fallback to subprocess.  
WARNING:tabula.backend:No module named 'jppye'  
WARNING:tabula.backend:Got stderr: May 10, 2024 3:18:58 AM org.apache.pdfbox.pdmodel.font.FileSystemFontProvider loadDiskCache  
WARNING: New fonts found, font cache will be re-built  
May 10, 2024 3:18:58 AM org.apache.pdfbox.pdmodel.font.FileSystemFontProvider <init>  
WARNING: Building on-disk font cache, this may take a while  
May 10, 2024 3:18:58 AM org.apache.pdfbox.pdmodel.font.FileSystemFontProvider <init>  
WARNING: Finished building on-disk font cache, found 17 fonts
```

Sr No.	Date of\Encashment	Name of the Political Party	Account no. of\Political Party	Prefix	Bond\Number	Denominations	Pay Branch\rCode	Pay Teller	grid icon
0	1	12/Apr/2019 ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	OC	775	1,00,00,000	00800	2770121	info icon
1	2	12/Apr/2019 ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	OC	3975	1,00,00,000	00800	2770121	
2	3	12/Apr/2019 ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	OC	3967	1,00,00,000	00800	2770121	
3	4	12/Apr/2019 ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	TL	10418	10,00,000	00800	2770121	
4	5	12/Apr/2019 ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	TL	126	10,00,000	00800	2770121	

Next steps: [Generate code with Piyush](#)

[View recommended plots](#)

```
Piyush.drop(["Sr No.", "Account no. of\Political Party", "Pay Branch\rCode", "Pay Teller"], axis=1, inplace=True)
```

```
Piyush.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 20972 entries, 0 to 20971
Data columns (total 5 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Encashment      20972 non-null   object 
 1   Name of the Political Party 20972 non-null   object 
 2   Prefix          20972 non-null   object 
 3   Number          20972 non-null   object 
 4   Denominations  20972 non-null   object 
dtypes: object(5)
memory usage: 819.3+ KB
```

```
Piyush.head(2)
```

	Date of\Encashment	Name of the Political Party	Prefix	Bond\rNumber	Denominations	grid icon
0	12/Apr/2019	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	OC	775	1,00,00,000	grid icon
1	12/Apr/2019	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	OC	3975	1,00,00,000	grid icon

Next steps: [Generate code with Piyush](#)

[View recommended plots](#)

```
#Importing and analysing the dataframe concerning Redemption Details
```

```
!wget https://www.eci.gov.in/eci-backend/public/api/download?url=LMAhAK6sOPBp%2FNFF0iRfxbEB1EVSLT41NNLRjYNJJP1KivrUxbfqkDatmHy12e%2FzBiU51zPFZI5qMtjV1qgjFmSC%2FSz9GPIId9Zlf4Wx9G%2BbMQG4kb31sE0S7b31iev056VRYj06iIsFTelbq233Uw%3D%3D
```

```
--2024-05-10 03:24:05--  https://www.eci.gov.in/eci-backend/public/api/download?url=LMAhAK6sOPBp%2FNFF0iRfxbEB1EVSLT41NNLRjYNJJP1KivrUxbfqkDatmHy12e%2FzBiU51zPFZI5qMtjV1qgjFmSC%2FSz9GPIId9Zlf4Wx9G%2BbMQG4kb31sE0S7b31iev056VRYj06iIsFTelbq233Uw%3D%
Resolving www.eci.gov.in... 23.46.150.57, 23.46.150.73
Connecting to www.eci.gov.in (www.eci.gov.in)|23.46.150.57|:443... connected.
HTTP request sent, awaiting response... 403 Forbidden
2024-05-10 03:24:05 ERROR 403: Forbidden.
```

```
# Read the PDF and extract data
PD_Table=tabula.read_pdf('Purchase_details.pdf',pages="all")
```

```
# Convert all pages to CSV
tabula.convert_into("Purchase_details.pdf", "Purchase_Details.csv", pages="all")
```

```
import pandas as pd
Joshi=pd.read_csv("Purchase_Details.csv")
```

```
Joshi.head(2)
```

	Sr No.	Reference No (URN)	Journal Date	Date of\Purchase	Date of Expiry	Name of the Purchaser	Prefix	Bond\rNumber	Denominations	Issue Branch Code	Issue Teller	Status	grid icon
0	1	00001201904120000001166	12/Apr/2019	12/Apr/2019	26/Apr/2019	A B C INDIA LIMITED	TL	11448	10,00,000	00001	5899230	Paid	grid icon
1	2	00001201904120000001166	12/Apr/2019	12/Apr/2019	26/Apr/2019	A B C INDIA LIMITED	TL	11447	10,00,000	00001	5899230	Paid	grid icon

Next steps: [Generate code with Joshi](#)

[View recommended plots](#)

```
Joshi.drop(["Sr No.", "Date of Expiry", "Issue Branch Code", "Issue Teller", "Journal Date", "Prefix"], axis=1, inplace=True)
```

```
Joshi.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 19256 entries, 0 to 19255
Data columns (total 6 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Reference No (URN) 19256 non-null   object 
 1   Purchase          19256 non-null   object 
 2   Name of the Purchaser 19256 non-null   object 
dtypes: object(6)
```

```
Number      19256 non-null object
4  Denominations      19256 non-null object
5  Status      19256 non-null object
dtypes: object(6)
memory usage: 902.8+ KB
```

```
Joshi.head(2)
```

	Reference No (URN)	Date of\rPurchase	Name of the Purchaser	Bond\rNumber	Denominations	Status	grid icon
0	0000120190412000001166	12/Apr/2019	A B C INDIA LIMITED	11448	10,00,000	Paid	info icon
1	0000120190412000001166	12/Apr/2019	A B C INDIA LIMITED	11447	10,00,000	Paid	info icon

Next steps: [Generate code with Joshi](#) [View recommended plots](#)

```
#verifying whether Bond\rNumber is a primary key
Joshi["Bond\rNumber"].value_counts()
```

```
Bond\rNumber
Bond\rNumber    385
10009         4
10012         4
13902         3
13908         3
...
29575         1
29573         1
29585         1
29308         1
17803         1
Name: count, Length: 14492, dtype: int64
```

Established, out of 385 "Bond\rNumber" many have multiple entries. Also, there is no Reference No (URN) in Redemption\_Details Table. In absence of unique key we will be merging the tables based on combination of columns ("Denominations" and "Bond\rNumber") as a composite primary key.

```
merge_list = pd.merge(left=Piyush,
                      right=Joshi,
                      on=["Bond\rNumber", "Denominations"],
                      how='inner',
                      suffixes=('_left', '_right'))
```

```
merge_list
```

	Date of\rEncashment	Name of the Political Party	Prefix	Bond\rNumber	Denominations	Reference No (URN)	Date of\rPurchase	Name of the Purchaser	Status
0	Date of\rEncashment	Name of the Political Party	Prefix	Bond\rNumber	Denominations	Reference No (URN)	Date of\rPurchase	Name of the Purchaser	Status
1	Date of\rEncashment	Name of the Political Party	Prefix	Bond\rNumber	Denominations	Reference No (URN)	Date of\rPurchase	Name of the Purchaser	Status
2	Date of\rEncashment	Name of the Political Party	Prefix	Bond\rNumber	Denominations	Reference No (URN)	Date of\rPurchase	Name of the Purchaser	Status
3	Date of\rEncashment	Name of the Political Party	Prefix	Bond\rNumber	Denominations	Reference No (URN)	Date of\rPurchase	Name of the Purchaser	Status
4	Date of\rEncashment	Name of the Political Party	Prefix	Bond\rNumber	Denominations	Reference No (URN)	Date of\rPurchase	Name of the Purchaser	Status
...	...	...	...	...	...	...	...	...	...
230871	24/Jan/2024	JANASENA PARTY	TL	2619	10,00,000	00952202401100000003723	10/Jan/2024	VALLURUPALLI PRABHU KISHORE	Paid
230872	24/Jan/2024	JANASENA PARTY	TL	2608	10,00,000	00952202401100000003723	10/Jan/2024	VALLURUPALLI PRABHU KISHORE	Paid
230873	24/Jan/2024	JANASENA PARTY	TL	2633	10,00,000	00952202401100000003723	10/Jan/2024	VALLURUPALLI PRABHU KISHORE	Paid
230874	24/Jan/2024	JANASENA PARTY	TL	2627	10,00,000	00952202401100000003723	10/Jan/2024	VALLURUPALLI PRABHU KISHORE	Paid
230875	24/Jan/2024	JANASENA PARTY	TL	2631	10,00,000	00952202401100000003723	10/Jan/2024	VALLURUPALLI PRABHU KISHORE	Paid

230876 rows × 9 columns

```
Tidy_List=merge_list[merge_list["Prefix"]!="Prefix"]
Tidy_List["Denominations"] = Tidy_List["Denominations"].str.replace(","," ", regex=False)
Tidy_List["Denominations"] = Tidy_List["Denominations"].astype(int)

Tidy_List.head(5)
```

```

<ipython-input-13-1368e5bbc559>:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy
Tidy_List["Denominations"] = Tidy_List["Denominations"].str.replace(", ", "", regex=False)
<ipython-input-13-1368e5bbc559>:3: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy.
Tidy_List["Denominations"] = Tidy_List["Denominations"].astype(int)

```

Date of\Encashment	Name of the Political Party	Prefix	Bond\Number	Denominations	Reference No (URN)	Date of\RPurchase	Name of the Purchaser	Status	
212135	16/Apr/2019	BHARATIYA JANATA PARTY	OC	5485	10000000 00847201904120000001164	12/Apr/2019	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	Paid	
212136	16/Apr/2019	BHARATIYA JANATA PARTY	OC	5465	10000000 00847201904120000001164	12/Apr/2019	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	Paid	
212137	16/Apr/2019	BHARATIYA JANATA PARTY	OC	5497	10000000 00847201904120000001164	12/Apr/2019	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	Paid	
212138	16/Apr/2019	BHARATIYA JANATA PARTY	OC	5510	10000000 00847201904120000001164	12/Apr/2019	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	Paid	
212139	16/Apr/2019	BHARATIYA JANATA PARTY	OC	5484	10000000 00847201904120000001164	12/Apr/2019	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	Paid	

#### Party-wise collection of funds through electoral bonds

```

Donation_spread=Tidy_List.groupby("Name of the Political Party")["Denominations"].sum().sort_values(ascending=False)
Donation_spread

```

Name of the Political Party	
BHARATIYA JANATA PARTY	55942011000
ALL INDIA TRINAMOOL CONGRESS	15925214000
PRESIDENT, ALL INDIA CONGRESS COMMITTEE	13510945000
BHARAT RASHTRA SAMITHI	11911599000
BIJU JANATA DAL	7755000000
德拉维达民盟 (DMK)	6320000000
YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU CONGRESS PARTY)	3287500000
TELEGU DESAM PARTY	2115800000
SHIVSENNA	1524514000
RASHTRIYA JANTA DAL	725000000
AAM Aadmi Party	652500000
JANATA DAL ( SECULAR )	410000000
SIKKIM KRANTIKARI MORCHA	365000000
NATIONALIST CONGRESS PARTY MAHARASHTRA PRADESH	285000000
JANASENA PARTY	210000000
ADYAKSHA SAMAJVADI PARTY	132100000
JHARKHAND MUKTI MORCHA	125000000
BIHAR PRADESH JANTA DAL(UNITED)	120000000
SHIROMANI AKALI DAL	72600000
SIKKIM DEMOCRATIC FRONT	55000000
MAHARASHTRAWADI GOMINTAK PARTY	5500000
JAMMU AND KASHMIR NATIONAL CONFERENCE	5000000
GOA FORWARD PARTY	3500000

Name: Denominations, dtype: int64

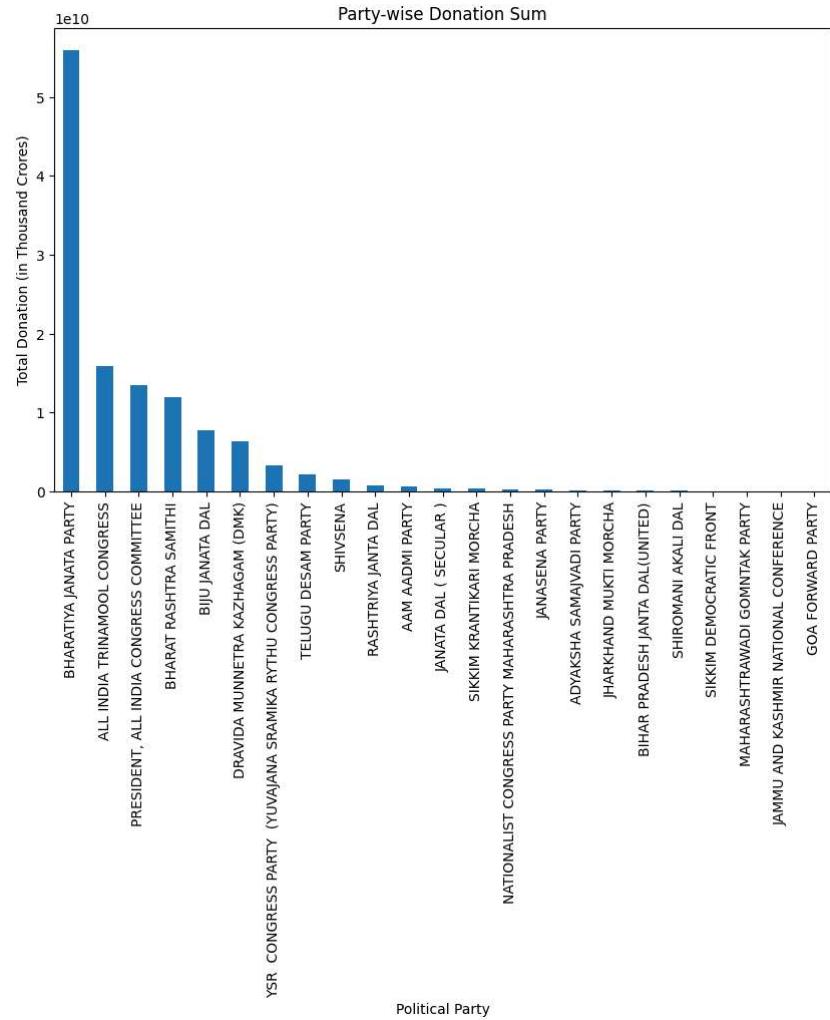
#### Total value of electoral bonds

```
Donation_spread.sum()
```

121458783000

Start coding or [generate](#) with AI.

```
import matplotlib.pyplot as plt
Donation_spread.sort_values(ascending=False).plot(kind="bar", figsize=(10, 6))
plt.title("Party-wise Donation Sum")
plt.xlabel("Political Party")
plt.ylabel("Total Donation (in Thousand Crores)")
plt.show()
```



Funds received by political parties in percentage

```
Donation_in_percentage=Donation_spread.to_frame().reset_index()
Donation_in_percentage.rename(columns={'Denominations': 'Amount_recieved'}, inplace=True)
Donation_in_percentage["Percentage share"]=Donation_in_percentage["Amount_recieved"]*100/Donation_spread.sum()
Donation_in_percentage
```

	Name of the Political Party	Amount_recieved	Percentage share	
0	BHARATIYA JANATA PARTY	55942011000	46.058432	
1	ALL INDIA TRINAMOOL CONGRESS	15925214000	13.111620	
2	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	13510945000	11.123893	
3	BHARAT RASHTRA SAMITHI	11911599000	9.807112	
4	BJIU JANATA DAL	7755000000	6.384882	
5	DRAVIDA MUNNETRA KAZHAGAM (DMK)	6320000000	5.203411	
6	YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	3287500000	2.706680	
7	TELUGU DESAM PARTY	2115800000	1.741990	
8	SHIVSENA	1524514000	1.255170	
9	RASHTRIYA JANTA DAL	725000000	0.596910	
10	AAM AADMÍ PARTY	652500000	0.537219	
11	JANATA DAL ( SECULAR )	410000000	0.337563	
12	SIKKIM KRANTIKARI MORCHA	365000000	0.300513	
13	NATIONALIST CONGRESS PARTY MAHARASHTRA PRADESH	285000000	0.234648	
14	JANASENA PARTY	210000000	0.172898	
15	ADYAKSHA SAMAJVADI PARTY	132100000	0.108761	
16	JHARKHAND MUKTI MORCHA	125000000	0.102916	
17	BIHAR PRADESH JANTA DAL(UNITED)	120000000	0.098799	
18	SHIROMANI AKALI DAL	72600000	0.059773	
19	SIKKIM DEMOCRATIC FRONT	55000000	0.045283	
20	MAHARASHTRAWADI GOMNTAK PARTY	5500000	0.004528	
21	JAMMU AND KASHMIR NATIONAL CONFERENCE	5000000	0.004117	
22	GOA FORWARD PARTY	3500000	0.002882	

Next steps: [Generate code with Donation\\_in\\_percentage](#) [View recommended plots](#)

#### Insight:

- Total 121458783000/- worth ruppes of electoral bonds were purchased by political parties in a span of 4 years
- Despite being in Centre and forming government in almost 55% of the state BJP received 46% of total electoral bonds and rest is shared by other political parties.

#### Reccomendations:

- Electoral bonds were brought in as a means to curb black money in Indian politics, it was a necessary step as for in a span of mere 4 years 12,000 Crore of money came in political donations, this amount of black money would have been harmful for the state of Indian economy.
- Supreme Court quashing electoral bonds as policy could have been avoidable, it surely brought in dubious political donations in lieu of anonymity w.r.t crony capitalism but such a step is akin to cut the nose to spite the face.

#### Top 10 Benefactors across Political Parties

```
Donation_spread_across_benefactors=Tidy_List.groupby(["Name of the Political Party","Name of the Purchaser"])[["Denominations"].sum().sort_values(ascending=False).to_frame().reset_index()
Donation_spread_across_benefactors.rename(columns={'Denominations': 'Amount_recieved'},inplace=True)
Donation_spread_across_benefactors.head(10)
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
0	BHARATIYA JANATA PARTY	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	5190000000	
1	DRAVIDA MUNNETRA KAZHAGAM (DMK)	FUTURE GAMING AND HOTEL SERVICES PR	4530000000	
2	ALL INDIA TRINAMOOL CONGRESS	FUTURE GAMING AND HOTEL SERVICES PR	4350000000	
3	BHARATIYA JANATA PARTY	QWIKSUPPLYCHAINPRIVATELIMITED	3750000000	
4	ALL INDIA TRINAMOOL CONGRESS	HALDIA ENERGY LIMITED	2810000000	
5	BHARATIYA JANATA PARTY	VEDANTA LIMITED	2266500000	
6	BHARATIYA JANATA PARTY	BHARTI AIRTEL LIMITED	1830000000	
7	BHARATIYA JANATA PARTY	MADANLAL LTD.	1755000000	
8	BJU JANATA DAL	ESSEL MINING AND INDS LTD	1745000000	
9	YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	FUTURE GAMING AND HOTEL SERVICES PR	1540000000	

Next steps: [Generate code with Donation\\_spread\\_across\\_benefactors](#) [View recommended plots](#)

#### Top 10 Benefactors of BHARATIYA JANATA PARTY

```
BJP=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="BHARATIYA JANATA PARTY"].head(10)
BJP.rename(columns={'Denominations': 'Amount_recieved'},inplace=True)
BJP
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
0	BHARATIYA JANATA PARTY	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	5190000000	
3	BHARATIYA JANATA PARTY	QWIKSUPPLYCHAINPRIVATELIMITED	3750000000	
5	BHARATIYA JANATA PARTY	VEDANTA LIMITED	2266500000	
6	BHARATIYA JANATA PARTY	BHARTI AIRTEL LIMITED	1830000000	
7	BHARATIYA JANATA PARTY	MADANLAL LTD.	1755000000	
11	BHARATIYA JANATA PARTY	KEVENTER FOODPARK INFRA LIMITED	1445000000	
12	BHARATIYA JANATA PARTY	DLF COMMERCIAL DEVELOPERS LIMITED	1300000000	
14	BHARATIYA JANATA PARTY	BIRLA CARBON INDIA PRIVATE LIMITED	1050000000	
16	BHARATIYA JANATA PARTY	FUTURE GAMING AND HOTEL SERVICES PR	1000000000	
21	BHARATIYA JANATA PARTY	HALDIA ENERGY LIMITED	810000000	

Next steps: [Generate code with BJP](#) [View recommended plots](#)

#### Top 10 Benefactors of Indian National Congress Party

```
INC=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="PRESIDENT, ALL INDIA CONGRESS COMMITTEE"]
INC.rename(columns={'Denominations': 'Amount_recieved'},inplace=True)
INC
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
13	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	WESTERN UP POWER TRANSMISSION COMPANY LI MITED	1100000000	
15	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	VEDANTA LIMITED	1040000000	
24	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	MKJ ENTERPRISES LIMITED	693500000	
25	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	YASHODA SUPER SPECIALITY HOSPITAL	640000000	
33	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	AVEES TRADING FINANCE PVT LTD	530000000	
37	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	FUTURE GAMING AND HOTEL SERVICES PR	500000000	
55	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	SASMAL INFRASTRUCTURE PRIVATE LIMITED	390000000	
76	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	RITHWIK PROJECTS PRIVATE LIMITED	300000000	
77	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	SEPC POWER PVT LTD OPERATION RETEN	300000000	
103	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	MKJ ENTERPRISES LTD	222500000	

Next steps: [Generate code with INC](#) [View recommended plots](#)

#### Top 10 Benefactors of ALL INDIA TRINAMOOL CONGRESS

```
TMC=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="ALL INDIA TRINAMOOL CONGRESS"].head(10)
TMC.rename(columns={'Denominations': 'Amount_recieved'}, inplace=True)
TMC
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
2	ALL INDIA TRINAMOOL CONGRESS	FUTURE GAMING AND HOTEL SERVICES PR	4350000000	
4	ALL INDIA TRINAMOOL CONGRESS	HALDIA ENERGY LIMITED	2810000000	
19	ALL INDIA TRINAMOOL CONGRESS	DHARIWAL INFRASTRUCTURE LIMITED	900000000	
26	ALL INDIA TRINAMOOL CONGRESS	FUTURE GAMING AND HOTEL SERVICES PVT LTD	620000000	
42	ALL INDIA TRINAMOOL CONGRESS	FUTURE GAMING AND HOTEL SERVICES PRIVATE LIMITED	450000000	
47	ALL INDIA TRINAMOOL CONGRESS	IFB AGRO INDUSTRIES LIMITED	420000000	
48	ALL INDIA TRINAMOOL CONGRESS	PCBL LIMITED	400000000	
52	ALL INDIA TRINAMOOL CONGRESS	CHENNAI GREEN WOODS PRIVATE LIMITED	400000000	
56	ALL INDIA TRINAMOOL CONGRESS	PRARAMBH SECURITIES PVT LTDPROPRIET	380000000	
64	ALL INDIA TRINAMOOL CONGRESS	CRESCENT POWER LTD	330000000	

Next steps: [Generate code with TMC](#) [View recommended plots](#)

#### Top 10 Benefactors of BHARAT RASHTRA SAMITHI

```
BRS=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="BHARAT RASHTRA SAMITHI"].head(10)
BRS.rename(columns={'Denominations': 'Amount_recieved'}, inplace=True)
BRS
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
10	BHARAT RASHTRA SAMITHI	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	1500000000	
18	BHARAT RASHTRA SAMITHI	YASHODA SUPER SPECIALITY HOSPITAL	940000000	
34	BHARAT RASHTRA SAMITHI	CHENNAI GREEN WOODS PRIVATE LIMITED	500000000	
45	BHARAT RASHTRA SAMITHI	MEGHA ENGINEERING & INFRASTRUCTURES LIMITED	450000000	
67	BHARAT RASHTRA SAMITHI	DR.REDDY'S LABORATORIES LTD	320000000	
70	BHARAT RASHTRA SAMITHI	HETERO DRUGS LIMITED	300000000	
93	BHARAT RASHTRA SAMITHI	IRB MP EXPRESSWAY PRIVATE LIMITED	250000000	
105	BHARAT RASHTRA SAMITHI	L7 HITECH PRIVATE LIMITED	220000000	
108	BHARAT RASHTRA SAMITHI	KOYA AND COMPANY CONSTRUCTION LTD	200000000	
112	BHARAT RASHTRA SAMITHI	TELLAPUR TECHNOCITY PRIVATE LIMI	200000000	

Next steps: [Generate code with BRS](#) [View recommended plots](#)

#### Top 10 Benefactors of BIJU JANATA DAL

```
BJD=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="BIJU JANATA DAL"].head(10)
BJD.rename(columns={'Denominations': 'Amount_recieved'}, inplace=True)
BJD
```

Name of the Political Party	Name of the Purchaser	Amount_recieved	
8 BIJU JANATA DAL	ESSEL MINING AND INDLS LTD	1745000000	
17 BIJU JANATA DAL	JINDAL STEEL AND POWER LIMITED	1000000000	
28 BIJU JANATA DAL	UTKAL ALUMINA INTERNATIONAL LIMITED	600000000	
40 BIJU JANATA DAL	RUNGTA SONS P LTD	500000000	
43 BIJU JANATA DAL	RASHMI CEMENT LTD	450000000	
44 BIJU JANATA DAL	MS S N MOHANTY	450000000	
50 BIJU JANATA DAL	VEDANTA LIMITED	400000000	
75 BIJU JANATA DAL	JINDAL STAINLESS LTD	300000000	
80 BIJU JANATA DAL	PENGUIN TRADING & AGENCIES LIMITED	275000000	
83 BIJU JANATA DAL	RASHMI METALIKS LTD	270000000	

Next steps: [Generate code with BJD](#) [View recommended plots](#)

#### Top 10 Benefactors of DRAVIDA MUNNETRA KAZHAGAM (DMK)

```
DMK=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="DRAVIDA MUNNETRA KAZHAGAM (DMK)"].head(10)
DMK.rename(columns={'Denominations': 'Amount_recieved'},inplace=True)
DMK
```

Name of the Political Party	Name of the Purchaser	Amount_recieved	
1 DRAVIDA MUNNETRA KAZHAGAM (DMK)	FUTURE GAMING AND HOTEL SERVICES PR	453000000	
30 DRAVIDA MUNNETRA KAZHAGAM (DMK)	MEGHA ENGINEERING AND INFRASTRUCTURES LTD	60000000	
38 DRAVIDA MUNNETRA KAZHAGAM (DMK)	FUTURE GAMING AND HOTEL SERVICES PRIVATE LIMITED	50000000	
96 DRAVIDA MUNNETRA KAZHAGAM (DMK)	MEGHA ENGINEERING & INFRASTRUCTURES LIMITED	25000000	
296 DRAVIDA MUNNETRA KAZHAGAM (DMK)	WESTWELL GASES PRIVATE LIMITED	8000000	
316 DRAVIDA MUNNETRA KAZHAGAM (DMK)	ASKUS LOGISTICS PVT LTD	7000000	
362 DRAVIDA MUNNETRA KAZHAGAM (DMK)	FERTILELAND FOODS PRIVATE LIMITED	5000000	
498 DRAVIDA MUNNETRA KAZHAGAM (DMK)	HERALD BEVERAGES PRIVATE LIMITED	4000000	
501 DRAVIDA MUNNETRA KAZHAGAM (DMK)	THE INDIA CEMENTS LTD	4000000	
526 DRAVIDA MUNNETRA KAZHAGAM (DMK)	KAL RADIO LIMITED	3500000	

Next steps: [Generate code with DMK](#) [View recommended plots](#)

#### Top 10 Benefactors of YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU CONGRESS PARTY)

```
YSR=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU CONGRESS PARTY)"].head(10)
YSR.rename(columns={'Denominations': 'Amount_recieved'},inplace=True)
YSR
```

Name of the Political Party	Name of the Purchaser	Amount_recieved	
9 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	FUTURE GAMING AND HOTEL SERVICES PR	154000000	
57 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	MEGHA ENGINEERING AND INFRASTRUCTURES LTD	37000000	
98 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	THE RAMCO CEMENTS LIMITED	24000000	
143 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	OSTRO MADHYA WIND PRIVATE LIMITED	17000000	
145 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	OSTRO JAISALMER PRIVATE LIMITED	17000000	
208 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	SNEHA KINETIC POWER PROJECTS PVT LTD	10000000	
358 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	EVERSHINE INTERIORS CHENNAI PVT LTD	5000000	
361 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	GREENKO ANANTAPUR WIND POWER PRIVATE LIMITED	5000000	
392 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	FUTURISTIC HANDLING SERVICES PVT LTD	5000000	
456 YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	SKEIRON RENEWABLE ENERGY AMIDYALA PRIVATE LIMITED	5000000	

Next steps: [Generate code with YSR](#) [View recommended plots](#)

#### Top 10 Benefactors of TELUGU DESAM PARTY

```
TDP=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="TELUGU DESAM PARTY"].head(10)
TDP.rename(columns={'Denominations': 'Amount_recieved'},inplace=True)
TDP
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
53	TELUGU DESAM PARTY	SHIRDI SAI ELECTRICALS LTD	400000000	
79	TELUGU DESAM PARTY	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	280000000	
121	TELUGU DESAM PARTY	WESTERN UP POWER TRANSMISSION COMPANY LI MITED	200000000	
179	TELUGU DESAM PARTY	NATCO PHARMA LTD	140000000	
262	TELUGU DESAM PARTY	DR.REDDY'S LABORATORIES LTD	100000000	
265	TELUGU DESAM PARTY	BHARAT BIOTECH INTERNATIONAL LIMITED	100000000	
402	TELUGU DESAM PARTY	THE RAMCO CEMENTS LIMITED	50000000	
410	TELUGU DESAM PARTY	TRIDENTCHEMPhARLIMITED	50000000	
444	TELUGU DESAM PARTY	BIOVET PVT LTD	50000000	
445	TELUGU DESAM PARTY	MAATHA PROJECTS LLP	50000000	

Next steps: [Generate code with TDP](#) [View recommended plots](#)

#### Top 10 Benefactors of SHIVSENA

```
SS=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="SHIVSENA"].head(10)
SS.rename(columns={'Denominations': 'Amount_recieved'},inplace=True)
SS
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
20	SHIVSENA	B G SHIRKE CONSTRUCTION TECHNOLOGY PVT L TD	850000000	
88	SHIVSENA	QWIKSUPPLYCHAINPRIVATELIMITED	250000000	
408	SHIVSENA	PRL DEVELOPERS PRIVATE LIMITED	50000000	
549	SHIVSENA	YUVAN TRADING CONSULTANCY LLP	30000000	
551	SHIVSENA	ULTRA TECH CEMENT LIMITED	30000000	
552	SHIVSENA	TORRENT POWER LIMITED	30000000	
609	SHIVSENA	GENEXT HARDWARE PARKS PVT. LTD	30000000	
614	SHIVSENA	DINESHCANDRA R AGRAWAL INFRACON PVT LTD	30000000	
652	SHIVSENA	MAHALAXMI VIDYUT PVT.LTD.	25000000	
695	SHIVSENA	BIRLAESTATESPRIVATELIMITED	20000000	

Next steps: [Generate code with SS](#) [View recommended plots](#)

#### Top 10 Benefactors of RASHTRIYA JANTA DAL

```
RJD=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="RASHTRIYA JANTA DAL"].head(10)
RJD.rename(columns={'Denominations': 'Amount_recieved'},inplace=True)
RJD
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
61	RASHTRIYA JANTA DAL	IFB AGRO INDUSTRIES LIMITED	35000000	
282	RASHTRIYA JANTA DAL	ASKUS LOGISTICS PRIVATE LIMITED	9000000	
348	RASHTRIYA JANTA DAL	WESTWELL GASES PRIVATE LIMITED	5100000	
531	RASHTRIYA JANTA DAL	RAUNAK GUPTA	3500000	
640	RASHTRIYA JANTA DAL	PURULIA BOTTLING PVT LTD	2500000	
661	RASHTRIYA JANTA DAL	LAXMI INDUSTRIAL BOTTLING PLANT	2440000	
716	RASHTRIYA JANTA DAL	SANDEEP AUTO LINES	2000000	
732	RASHTRIYA JANTA DAL	HERALD BEVERAGES PRIVATE LIMITED	2000000	
810	RASHTRIYA JANTA DAL	VIKAS PARASRAMPURIA	1500000	
821	RASHTRIYA JANTA DAL	MAHABIR BANKA	1500000	

Next steps: [Generate code with RJD](#) [View recommended plots](#)

#### Top 10 Benefactors of AAM Aadmi Party

```
AAP=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="AAM Aadmi Party"].head(10)
AAP.rename(columns={'Denominations': 'Amount_recieved'}, inplace=True)
AAP
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
222	AAM Aadmi Party	AVEES TRADING FINANCE PVT LTD	10000000	
289	AAM Aadmi Party	BAJAJ AUTO LTD	8000000	
303	AAM Aadmi Party	TRANSWAYS EXIM PRIVATE LIMITED	7000000	
317	AAM Aadmi Party	MKJ ENTERPRISES LIMITED	7000000	
416	AAM Aadmi Party	TORRENT POWER LIMITED	5000000	
433	AAM Aadmi Party	ASIAN TRADING CORPORATION LIMITED	5000000	
507	AAM Aadmi Party	IFB AGRO INDUSTRIES LIMITED	4000000	
751	AAM Aadmi Party	TORRENT POWER LTD	2000000	
753	AAM Aadmi Party	BIRD WORLDWIDE FLIGHT SERVICES INDI	2000000	
826	AAM Aadmi Party	AVON CYCLES LTD	1400000	

Next steps: [Generate code with AAP](#) [View recommended plots](#)

#### Top 10 Benefactors of Samajvadi Party

```
SP=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Political Party"]=="ADYAKSHA SAMAJVADI PARTY"].head(10)
SP.rename(columns={'Denominations': 'Amount_recieved'}, inplace=True)
SP
```

	Name of the Political Party	Name of the Purchaser	Amount_recieved	
258	ADYAKSHA SAMAJVADI PARTY	KEVENTER FOODPARK INFRA LIMITED	10000000	
571	ADYAKSHA SAMAJVADI PARTY	TORRENT PHARMACEUTICALS LTD	3000000	
1291	ADYAKSHA SAMAJVADI PARTY	M S JUGENDRA SINGH AND COMPANY	2100000	

Next steps: [Generate code with SP](#) [View recommended plots](#)

#### Top 5 benefactors and their beneficiaries

##### MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED

```
df=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Purchaser"]=="MEGHA ENGINEERING AND INFRASTRUCTURES LTD"]
```

```
Purchaser1= df.groupby(["Name of the Purchaser","Name of the Political Party"])["Amount_recieved"].sum().sort_values(ascending=False).to_frame()
Purchaser1.head(5)
```

	Name of the Purchaser	Name of the Political Party	Amount_recieved	
0	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	BHARATIYA JANATA PARTY	5190000000	
1	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	BHARAT RASHTRA SAMITHI	1500000000	
2	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	DRAVIDA MUNNETRA KAZHAGAM (DMK)	600000000	
3	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	370000000	
4	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	TELUGU DESAM PARTY	280000000	

Next steps: [Generate code with Purchaser1](#) [View recommended plots](#)

```
p1 = Purchaser1[["Name of the Political Party", "Amount_recieved"]].set_index("Name of the Political Party")
p1
```

	Amount_recieved	
Name of the Political Party		
BHARATIYA JANATA PARTY	5190000000	
BHARAT RASHTRA SAMITHI	1500000000	
DRAVIDA MUNNETRA KAZHAGAM (DMK)	600000000	
YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU CONGRESS PARTY)	370000000	
TELUGU DESAM PARTY	280000000	
PRESIDENT, ALL INDIA CONGRESS COMMITTEE	180000000	
JANATA DAL ( SECULAR )	5000000	
JANASENA PARTY	4000000	

Next steps: [Generate code with p1](#) [View recommended plots](#)

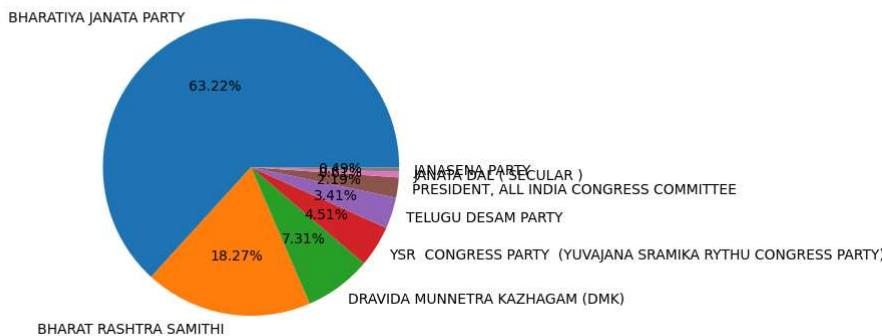
```
import matplotlib.pyplot as plt

# Extract the first column of the DataFrame
values = p1.iloc[:, 0]

# Plot the pie chart
plt.pie(values, labels=p1.index, autopct=".2f%%")
plt.title("MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED Donation Spread in percentage")
plt.figure(figsize=(8, 6))

plt.show()
```

MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED Donation Spread in percentage



<Figure size 800x600 with 0 Axes>

Double-click (or enter) to edit

## FUTURE GAMING AND HOTEL SERVICES PR

```
df2=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Purchaser"]=="FUTURE GAMING AND HOTEL SERVICES PR"]
Purchaser2= df2.groupby(["Name of the Purchaser","Name of the Political Party"])["Amount_recieved"].sum().sort_values(ascending=False).to_frame().reset_index()
Purchaser2.head(5)
```

Name of the Purchaser	Name of the Political Party	Amount_recieved
0 FUTURE GAMING AND HOTEL SERVICES PR	DRAVIDA MUNNETRA KAZHAGAM (DMK)	4530000000
1 FUTURE GAMING AND HOTEL SERVICES PR	ALL INDIA TRINAMOOL CONGRESS	4350000000
2 FUTURE GAMING AND HOTEL SERVICES PR	YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	1540000000
3 FUTURE GAMING AND HOTEL SERVICES PR	BHARATIYA JANATA PARTY	1000000000
4 FUTURE GAMING AND HOTEL SERVICES PR	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	500000000

Next steps: [Generate code with Purchaser2](#) [View recommended plots](#)

```
p2 = Purchaser2[["Name of the Political Party", "Amount_recieved"]].set_index("Name of the Political Party")
p2
```

Name of the Political Party	Amount_recieved
DRAVIDA MUNNETRA KAZHAGAM (DMK)	4530000000
ALL INDIA TRINAMOOL CONGRESS	4350000000
YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU CONGRESS PARTY)	1540000000
BHARATIYA JANATA PARTY	1000000000
PRESIDENT, ALL INDIA CONGRESS COMMITTEE	500000000
SIKKIM KRANTIKARI MORCHA	80000000
SIKKIM DEMOCRATIC FRONT	50000000

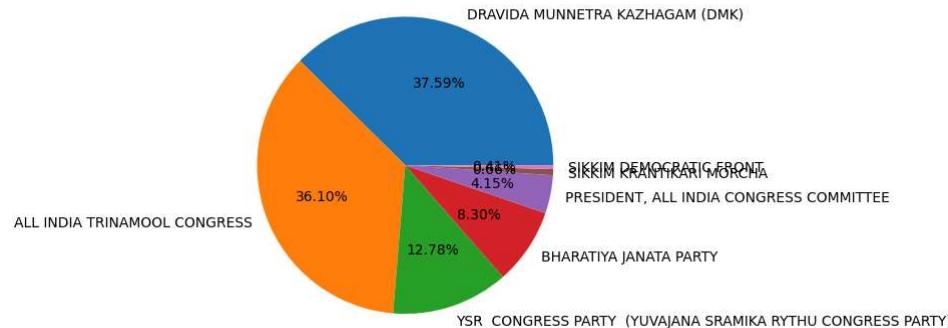
Next steps: [Generate code with p2](#) [View recommended plots](#)

```
# Extract the first column of the DataFrame
values = p2.iloc[:, 0]

# Plot the pie chart
plt.pie(values, labels=p2.index, autopct="%2f%%")
plt.title("FUTURE GAMING AND HOTEL SERVICES PR Donation Spread in percentage")
plt.figure(figsize=(8, 6))

plt.show()
```

### FUTURE GAMING AND HOTEL SERVICES PR Donation Spread in percentage



<Figure size 800x600 with 0 Axes>

### QWIK SUPPLY CHAIN PRIVATE LIMITED

```
df3=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Purchaser"]=="QWIKSUPPLYCHAINPRIVATELIMITED"]
Purchaser3= df3.groupby(["Name of the Purchaser","Name of the Political Party"])[["Amount_recieved"].sum().sort_values(ascending=False).to_frame().reset_index()
p3 = Purchaser3[["Name of the Political Party", "Amount_recieved"]].set_index("Name of the Political Party")
p3
```

Name of the Political Party	Amount_recieved
BHARATIYA JANATA PARTY	3750000000
SHIVSENA	250000000
NATIONALIST CONGRESS PARTY MAHARASHTRA PRADESH	100000000

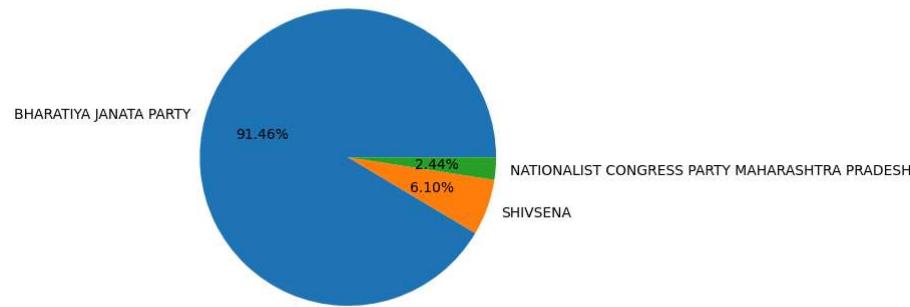
Next steps: [Generate code with p3](#) [View recommended plots](#)

```
# Extract the first column of the DataFrame
values = p3.iloc[:, 0]

# Plot the pie chart
plt.pie(values, labels=p3.index, autopct="%2f%%")
plt.title("QWIK SUPPLY CHAIN PRIVATE LIMITED Donation Spread in percentage")
plt.figure(figsize=(8, 6))

plt.show()
```

### QWIK SUPPLY CHAIN PRIVATE LIMITED Donation Spread in percentage



<Figure size 800x600 with 0 Axes>

### HALDIA ENERGY LIMITED

```
df4=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Purchaser"]=="HALDIA ENERGY LIMITED"]
Purchaser4= df4.groupby(["Name of the Purchaser","Name of the Political Party"])["Amount_recieved"].sum().sort_values(ascending=False).to_frame().reset_index()
p4 = Purchaser4[["Name of the Political Party", "Amount_recieved"]].set_index("Name of the Political Party")
p4
```

Name of the Political Party	Amount_recieved
ALL INDIA TRINAMOOL CONGRESS	2810000000
BHARATIYA JANATA PARTY	810000000
PRESIDENT, ALL INDIA CONGRESS COMMITTEE	150000000

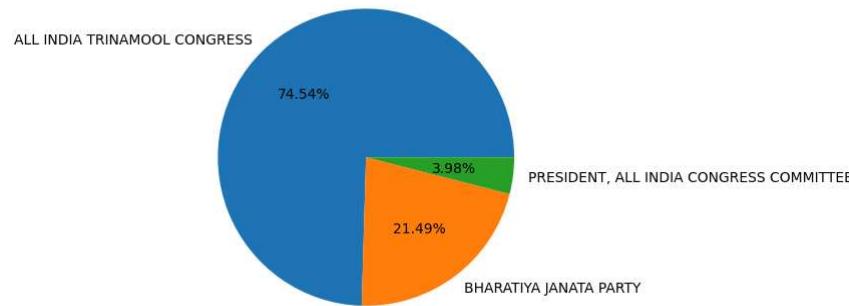
Next steps: [Generate code with p4](#) [View recommended plots](#)

```
# Extract the first column of the DataFrame
values = p4.iloc[:, 0]

# Plot the pie chart
plt.pie(values, labels=p4.index, autopct=".2f%%")
plt.title("HALDIA ENERGY LIMITED Donation Spread in percentage")
plt.figure(figsize=(8, 6))

plt.show()
```

#### HALDIA ENERGY LIMITED Donation Spread in percentage



<Figure size 800x600 with 0 Axes>

#### VEDANTA LIMITED

```
df5=Donation_spread_across_benefactors[Donation_spread_across_benefactors["Name of the Purchaser"]=="VEDANTA LIMITED"]
Purchaser5= df5.groupby(["Name of the Purchaser","Name of the Political Party"])["Amount_recieved"].sum().sort_values(ascending=False).to_frame()
p5 = Purchaser5[["Name of the Political Party", "Amount_recieved"]].set_index("Name of the Political Party")
p5
```

Name of the Political Party	Amount_recieved
BHARATIYA JANATA PARTY	2266500000
PRESIDENT, ALL INDIA CONGRESS COMMITTEE	1040000000
BIJU JANATA DAL	40000000
JHARKHAND MUKTI MORCHA	5000000

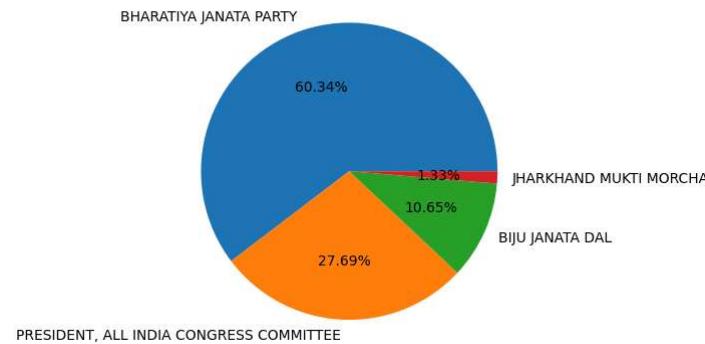
Next steps: [Generate code with p5](#) [View recommended plots](#)

```
# Extract the first column of the DataFrame
values = p5.iloc[:, 0]

# Plot the pie chart
plt.pie(values, labels=p5.index, autopct="%2f%%")
plt.title("VEDANTA LIMITED Donation Spread in percentage")
plt.figure(figsize=(8, 6))

plt.show()
```

## VEDANTA LIMITED Donation Spread in percentage



<Figure size 800x600 with 0 Axes>

### Insights:

1. BJP continues to get major share from all the donors. In states where BJP has minimal presence as opposition, BJP get a percentage share of electoral bonds.
2. Donors have a tendency to donate all sides, it not only gives succour to opposition but implies guilt on all side in case of corruption and malpractice.

### Reccomendations:

1. Parties should do their due diligence before redeeming electoral bonds.

Start coding or generate with AI.

Double-click (or enter) to edit

### Details of Electoral Bonds that were bought for Political Parties running Governments in Centre and prominent States. i.e. BJP , INC , TMC, AAP , BRS and DMK

#### A. BHARATIYA JANATA PARTY

```
BJP1=Tidy_List["Name of the Political Party"]=="BHARATIYA JANATA PARTY"].groupby(["Date of\rPurchase","Name of the Purchaser"])["Denominations"].sum()
BJP1=BJP1.to_frame().reset_index()
BJP1.rename(columns={'Denominations': 'Amount_recieved'},inplace=True)
BJP1
```

	Date of Purchase	Name of the Purchaser	Amount_recieved	
0	01/Jul/2022	DR REDDYS LABORATORIES LIMITED	10000000	
1	01/Jul/2022	NATCO PHARMA LIMITED	20000000	
2	01/Oct/2019	HALDIA ENERGY LIMITED	10000000	
3	01/Oct/2019	TORRENT POWER LIMITED	50000000	
4	01/Oct/2019	TORRENT PHARMACEUTICALS LIMITED	50000000	
...	...	...	...	
672	27/Jan/2023	PRAGATI ENTERPRISES	35000000	
673	27/Jan/2023	SOPANRAO BALKRISHNA DHASAL AGRO PRODUCTS LIMITED	2000000	
674	27/Oct/2020	JINDAL SAW LIMITED	50000000	
675	27/Oct/2020	WELSPUN CORP LTD	70000000	
676	28/Oct/2020	INDIA GLYCOLS LTD	19900000	

677 rows × 3 columns

```
BJP1["year/month of Purchase"] = pd.to_datetime(BJP1['Date of Purchase'], format='mixed').dt.strftime("%y-%m")
BJP1.drop(columns=["Date of Purchase", "Name of the Purchaser"], axis=1, inplace=True)
```

```
BJP1=BJP1.groupby("year/month of Purchase")["Amount_recieved"].sum().to_frame()
BJP1
```

year/month of Purchase	Amount_recieved	
19-04	5975601000	
19-05	7077000000	
19-07	150000000	
19-10	1851800000	
20-01	530000000	
20-10	208900000	
21-01	14950000	
21-04	2915000000	
21-07	180000000	
21-10	620000000	
22-01	6622000000	
22-04	985000000	
22-07	125000000	
22-10	2225000000	
22-11	6028499000	
22-12	1650000000	
23-01	1928000000	
23-04	3342450000	
23-07	869301000	
23-10	3590500000	
23-11	7033010000	
24-01	2020000000	

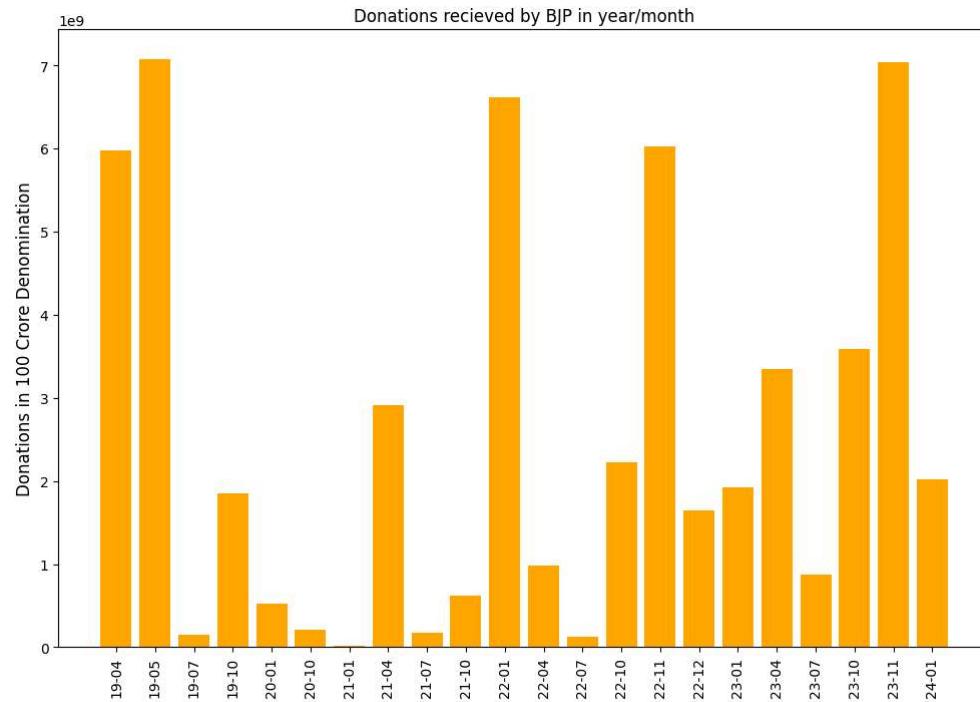
Next steps: [Generate code with BJP1](#)

[View recommended plots](#)

```
x_bar = BJP1.index
y_bar = BJP1["Amount_recieved"]
plt.figure(figsize=(12, 8))
```

```
plt.bar(x_bar, y_bar,color="orange")
plt.title("Donations received by BJP in year/month")
plt.ylabel("Donations in 100 Crore Denomination",fontsize=12)
plt.xlabel("year/month",fontsize=12)
plt.xticks(rotation=90)
```

```
([0,
 1,
 2,
 3,
 4,
 5,
 6,
 7,
 8,
 9,
10,
11,
12,
13,
14,
15,
16,
17,
18,
19,
20,
21],
[Text(0, 0, '19-04'),
Text(1, 0, '19-05'),
Text(2, 0, '19-07'),
Text(3, 0, '19-10'),
Text(4, 0, '20-01'),
Text(5, 0, '20-10'),
Text(6, 0, '21-01'),
Text(7, 0, '21-04'),
Text(8, 0, '21-07'),
Text(9, 0, '21-10'),
Text(10, 0, '22-01'),
Text(11, 0, '22-04'),
Text(12, 0, '22-07'),
Text(13, 0, '22-10'),
Text(14, 0, '22-11'),
Text(15, 0, '22-12'),
Text(16, 0, '23-01'),
Text(17, 0, '23-04'),
Text(18, 0, '23-07'),
Text(19, 0, '23-10'),
Text(20, 0, '23-11'),
Text(21, 0, '24-01')])
```



year/month

## B. INDIAN NATIONAL CONGRESS

```
Tidy_List[Tidy_List["Name of the Political Party"]=="PRESIDENT, ALL INDIA CONGRESS COMMITTEE"].groupby(["Date of\rPurchase","Name of the Purchaser"])["Denominations"].sum()
```

Date of\rPurchase	Name of the Purchaser	Denominations
01/Jul/2022	MKJ ENTERPRISES LIMITED	12000000
	TRANSWAYS EXIM PVT LTD	3000000
02/Apr/2022	GOURAB ROY	200000
	SRABANI ROY	500000
02/Jul/2021	BHUDUTT JANGID	500000
		...
21/Jan/2020	JANAM ENTERPRISES	3500000
	SHREE CEMENT LTD	4000000
	TANUSHREE LOGISTICS PRIVATE LIMITED	6000000
21/Jan/2023	KAMAL MANOHAR	3000000
23/Jan/2023	MAHESH NARAYAN KHADE	5000000

Name: Denominations, Length: 438, dtype: int64

```
INC1=Tidy_List[Tidy_List["Name of the Political Party"]=="PRESIDENT, ALL INDIA CONGRESS COMMITTEE"].groupby(["Date of\rPurchase","Name of the Purchaser"])["Denominations"].sum()
```

```
INC1=INC1.to_frame().reset_index()
```

```
INC1.rename(columns={'Denominations': 'Amount_recieved'}, inplace=True)
```

1

	Date of\rPurchase	Name of the Purchaser	Amount_recieved
0	01/Jul/2022	MKJ ENTERPRISES LIMITED	12000000
1	01/Jul/2022	TRANSWAYS EXIM PVT LTD	3000000
2	02/Apr/2022	GOURAB ROY	200000
3	02/Apr/2022	SRABANI ROY	500000
4	02/Jul/2021	BHUDUTT JANGID	500000
...	...	...	...
433	21/Jan/2020	JANAM ENTERPRISES	3500000
434	21/Jan/2020	SHREE CEMENT LTD	4000000
435	21/Jan/2020	TANUSHREE LOGISTICS PRIVATE LIMITED	6000000
436	21/Jan/2023	KAMAL MANOHAR	3000000
437	23/Jan/2023	MAHESH NARAYAN KHADE	5000000

438 rows x 3 columns

Next steps: [Generate code with INC1](#)

 [View recommended plots](#)

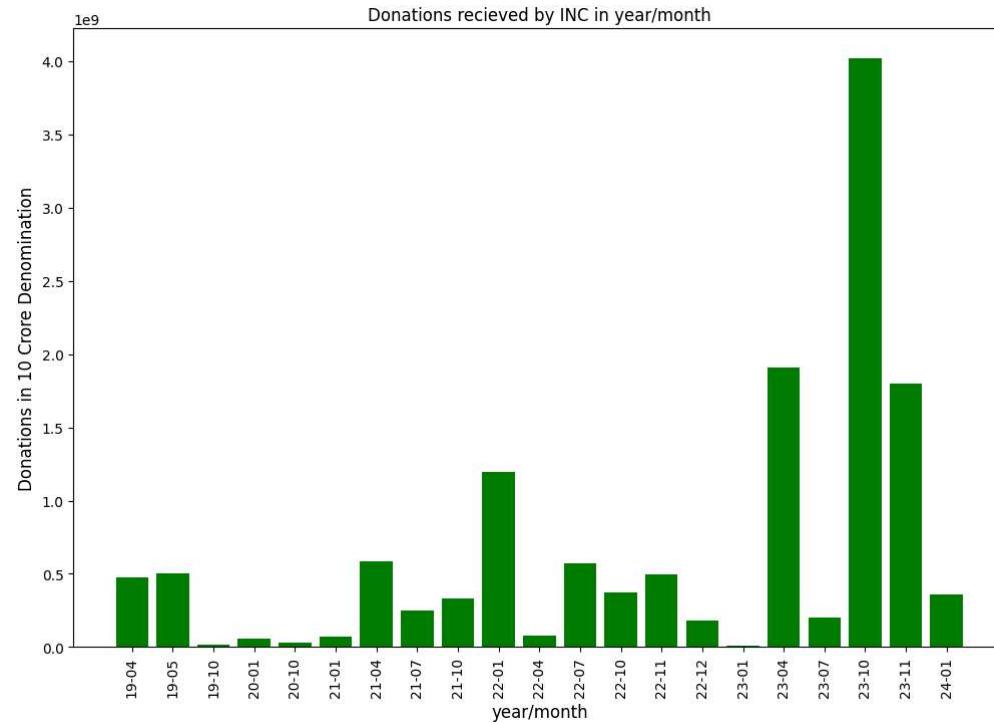
```
INC1["year/month of Purchase"]=pd.to_datetime(INC1['Date of\rPurchase'], format='mixed').dt.strftime("%y-%m")
INC1.drop(columns=["Date of\rPurchase", "Name of the Purchaser"], axis=1, inplace=True)
INC1=INC1.groupby("year/month of Purchase")["Amount_recieved"].sum().to_frame()
INC1
```

year/month of Purchase	Amount_recieved
19-04	477900000
19-05	500000000
19-10	17500000
20-01	60000000
20-10	30000000
21-01	70750000
21-04	587500000
21-07	247000000
21-10	333995000
22-01	1192500000
22-04	80000000
22-07	575000000
22-10	372000000
22-11	494100000
22-12	180000000
23-01	9100000
23-04	1905500000
23-07	205000000
23-10	4019100000
23-11	1795000000
24-01	359000000

Next steps: [Generate code with INC1](#) [View recommended plots](#)

```
x_bar = INC1.index
y_bar = INC1["Amount_recieved"]
plt.figure(figsize=(12, 8))
plt.bar(x_bar, y_bar,color="green")
plt.title("Donations received by INC in year/month")
plt.ylabel("Donations in 10 Crore Denomination",fontsize=12)
plt.xlabel("year/month",fontsize=12)
plt.xticks(rotation=90)
```

```
([0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20],
 [Text(0, 0, '19-04'),
  Text(1, 0, '19-05'),
  Text(2, 0, '19-10'),
  Text(3, 0, '20-01'),
  Text(4, 0, '20-10'),
  Text(5, 0, '21-01'),
  Text(6, 0, '21-04'),
  Text(7, 0, '21-07'),
  Text(8, 0, '21-10'),
  Text(9, 0, '22-01'),
  Text(10, 0, '22-04'),
  Text(11, 0, '22-07'),
  Text(12, 0, '22-10'),
  Text(13, 0, '22-11'),
  Text(14, 0, '22-12'),
  Text(15, 0, '23-01'),
  Text(16, 0, '23-04'),
  Text(17, 0, '23-07'),
  Text(18, 0, '23-10'),
  Text(19, 0, '23-11'),
  Text(20, 0, '24-01)])
```



#### C. ALL INDIA TRINAMOOL CONGRESS

```
Tidy_List[Tidy_List["Name of the Political Party"]=="ALL INDIA TRINAMOOL CONGRESS"].groupby(["Date of\rPurchase", "Name of the Purchaser"])["Denominations"].sum()
```

Date of\rPurchase	Name of the Purchaser	Denominations
01/Oct/2019	AVEES TRADING & FINANCE PVT LTD	200000000
02/Jul/2021	SHIV SHANKAR SECURITIES PVT LTD	3000000
03/Apr/2021	PHILLIPS CARBON BLACK LIMITED	100000000
03/Jan/2024	KALPTARU INVESTMENTS PVT.LTD. PROP	25000000
	KUSUM MAROTI	1500000
		...
25/Jan/2023	FUTURE GAMING AND HOTEL SERVICES PR	150000000
27/Jan/2023	ARUNANGSHU MUKHERJEE	5000000
	RASHMI CEMENT LTD	90000000
27/Oct/2020	FUTURE GAMING AND HOTEL SERVICES PR	10000000

UTKARSH SFATIK LIMITED 10000000  
Name: Denominations, Length: 394, dtype: int64

#### D. AAM Aadmi Party

Tidy\_List[Tidy\_List["Name of the Political Party"]=="AAM Aadmi Party"].groupby(["Date of Purchase","Name of the Purchaser"])["Denominations"].sum()

Date of Purchase	Name of the Purchaser	Denominations
01/Oct/2022	TRANSWAYS EXIM PRIVATE LIMITED	4000000
03/Jan/2022	TORRENT POWER LTD	2000000
04/Jul/2023	TRANSWAYS EXIM PRIVATE LIMITED	3000000
04/Oct/2022	ANAND SAKHARAM PIMPARKAR	100000
06/Jan/2022	V M SALGACAR CORPORATION PVT LTD	500000
		...
14/Nov/2022	PARAMJIT SINGH S O JAGJIT SINGH	2000000
15/Nov/2022	BIRD WORLDWIDE FLIGHT SERVICES INDI	2000000
18/Jan/2020	LEPTON SOFTWARE EXPORT AND RESEARCH PRIVATE LTD	1000000
21/Jan/2020	KRBL LTD	2000000
28/Oct/2020	BAJAJ AUTO LTD	3000000

Name: Denominations, Length: 61, dtype: int64

#### E. Bharat Rashtra Samithi

Tidy\_List[Tidy\_List["Name of the Political Party"]=="Bharat Rashtra Samithi"].groupby(["Date of Purchase","Name of the Purchaser"])["Denominations"].sum()

Date of Purchase	Name of the Purchaser	Denominations
01/Jul/2022	NATCO PHARMA LIMITED	10000000
03/Jul/2023	MODERN ROAD MAKERS PVT LTD	5000000
	SUPER CYBERTECH PARK PRIVATE LIMITE	10000000
04/Apr/2022	YASHODA SUPER SPECIALITY HOSPITAL	50000000
04/Jul/2023	IRB MP EXPRESSWAY PRIVATE LIMITED	25000000
	...	
16/Nov/2023	DESAI TRADING CONSULTANTS PVT LTD	1000000
17/Nov/2023	WELSPUN LIVING LIMITED	5000000
	YUVAN TRADING CONSULTANCY LLP	2000000
18/Nov/2023	INORBIT MALLS INDIA PRIVATE LIMIT	5000000
25/Jan/2023	BUILDOX DEVELOPERS LLP	500000

Name: Denominations, Length: 259, dtype: int64

#### F. Dravida Munnetra Kazhagam (DMK)

Tidy\_List[Tidy\_List["Name of the Political Party"]=="Dravida Munnetra Kazhagam (DMK)"].groupby(["Date of Purchase","Name of the Purchaser"])["Denominations"].sum()

Date of Purchase	Name of the Purchaser	Denominations
03/Apr/2021	KAL RADIO LIMITED	3500000
	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	40000000
	SOUTH ASIA FM LIMITED	3500000
	SUN DISTRIBUTION SERVICES PVT LTD	3000000
	THE INDIA CEMENTS LTD	4000000
05/Apr/2021	FUTURE GAMING AND HOTEL SERVICES PR	49000000
05/Apr/2023	FUTURE GAMING AND HOTEL SERVICES PR	40000000
05/Jan/2022	FUTURE GAMING AND HOTEL SERVICES PR	50000000
05/Oct/2021	FUTURE GAMING AND HOTEL SERVICES PR	99000000
06/Jan/2022	FUTURE GAMING AND HOTEL SERVICES PRIVATE LIMITED	50000000
06/Jul/2022	FUTURE GAMING AND HOTEL SERVICES PR	50000000
06/Oct/2022	FERTILELAND FOODS PRIVATE LIMITED	5000000
	FUTURE GAMING AND HOTEL SERVICES PR	5000000
07/Apr/2022	FUTURE GAMING AND HOTEL SERVICES PR	100000000
08/Jul/2022	MEGHA ENGINEERING & INFRASTRUCTURES LIMITED	25000000
09/Apr/2021	THRIVENI EARTH MOVERS PVT LTD	3000000
09/Jan/2024	SANDEEP AUTO LINES	1000000
10/Jan/2024	ASKUS LOGISTICS PVT LTD	7000000
	HERALD BEVERAGES PRIVATE LIMITED	4000000
11/Jan/2024	WESTWELL GASES PRIVATE LIMITED	8000000
16/Apr/2019	MODERN ROAD MAKERS PVT LTD	2000000
21/Oct/2020	FUTURE GAMING AND HOTEL SERVICES PR	60000000
23/Oct/2020	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	10000000
27/Oct/2020	MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	10000000

Name: Denominations, dtype: int64

Insights:

- Opposition time and again allege parties in Centre and State governments for using agencies, handing out contracts and modifying policies as a mean to influence corporates into buying electoral bonds.

Reccomendation:

- Such allegations can be collaborated by matching the dates on which electoral bonds were bought by corporates in question for the intended political parties and then those dates can be matched against timelines when major policy decisions were taken by governments of the day, establishing a money trail for whistle blowing.
- Electoral bonds was a major electoral reform in India and should be reformed and reinstated.
- Electoral bonds could have been made public once after a stipulated time period so that black money could be curbed while bringing in political accountability.

Start coding or [generate](#) with AI.

[Start coding](#) or [generate](#) much faster.

Start coding or [generate](#) with AI.

Start coding or [generate](#) with AI.