

Exploratory Data Analysis - For Disclosure of Electoral Bond Data uploaded by the State Bank of India (PDFs taken from Election Commission of India (21-03-2024))

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```
In [1]: import tabula
# Read PDF into a List of DataFrames
df_EB_Purchaser_Detail = tabula.read_pdf("EB_Purchaser_Detail.pdf", pages="all")
# Convert PDF into a CSV file
tabula.convert_into("EB_Purchaser_Detail.pdf", "EB_Purchaser_Detail.csv", output_fo
```

```
In [2]: # Read PDF into a List of DataFrames
df_EB_Redemption_Details = tabula.read_pdf("EB_Redemption_Details.pdf", pages="all"
# Convert PDF into a CSV file
tabula.convert_into("EB_Redemption_Details.pdf", "EB_Redemption_Details.csv", outpu
```

```
In [1]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import plotly.express as px
import warnings
warnings.filterwarnings('ignore')
```

```
In [2]: company = pd.read_csv("EB_Purchaser_Detail.csv")
party = pd.read_csv("EB_Redemption_Details.csv")
```

```
In [3]: company.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 18871 entries, 0 to 18870
Data columns (total 12 columns):
 #   Column           Non-Null Count  Dtype  
 ---  -- 
 0   Sr No.          18871 non-null   int64  
 1   Reference No (URN)    18871 non-null   object  
 2   Journal Date     18871 non-null   object  
 Purchase          18871 non-null   object  
 4   Date of Expiry    18871 non-null   object  
 5   Name of the Purchaser 18871 non-null   object  
 6   Prefix           18871 non-null   object  
 Number            18871 non-null   int64  
 8   Denominations    18871 non-null   int64  
 9   Issue Branch Code 18871 non-null   int64  
 10  Issue Teller     18871 non-null   int64  
 11  Status           18871 non-null   object  
dtypes: int64(5), object(7)
memory usage: 1.7+ MB
```

```
In [4]: party.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 20421 entries, 0 to 20420
Data columns (total 9 columns):
 #   Column           Non-Null Count Dtype
 ---  -- 
 0   Sr No.          20421 non-null  int64
 Encashment      20421 non-null  object
 2   Name of the Political Party  20421 non-null  object
 Political Party 20421 non-null  object
 4   Prefix           20421 non-null  object
 Number          20421 non-null  int64
 6   Denominations   20421 non-null  int64
 Code            20421 non-null  int64
 8   Pay Teller       20421 non-null  int64
dtypes: int64(5), object(4)
memory usage: 1.4+ MB
```

In [5]: `company.columns`

```
Out[5]: Index(['Sr No.', 'Reference No (URN)', 'Journal Date', 'Date of\rPurchase',
               'Date of Expiry', 'Name of the Purchaser', 'Prefix', 'Bond\rNumber',
               'Denominations', 'Issue Branch Code', 'Issue Teller', 'Status'],
              dtype='object')
```

In [6]: `party.columns`

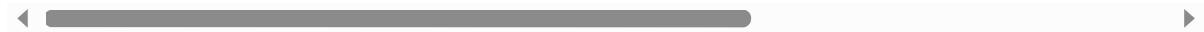
```
Out[6]: Index(['Sr No.', 'Date of\rEncashment', 'Name of the Political Party',
               'Account no. of\rPolitical Party', 'Prefix', 'Bond\rNumber',
               'Denominations', 'Pay Branch\rCode', 'Pay Teller'],
              dtype='object')
```

In [7]: `company`

Out[7]:

Sr No.	Reference No (URN)	Journal Date	Date of Purchase	Date of Expiry	Name of the Purchaser	Prefix	Bor
0	1 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	TL	
1	2 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	TL	
2	3 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	TL	
3	4 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	OL	
4	5 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	OL	
...
18866	18867 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18867	18868 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18868	18869 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18869	18870 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18870	18871 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	

18871 rows × 12 columns

In [8]: `print(party)`

Sr No.	Date of Encashment	Name of the Political Party \		
0	1	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	
1	2	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	
2	3	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	
3	4	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	
4	5	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	
...
20416	20417	24-Jan-24	JANASENA PARTY	
20417	20418	24-Jan-24	JANASENA PARTY	
20418	20419	24-Jan-24	JANASENA PARTY	
20419	20420	24-Jan-24	JANASENA PARTY	
20420	20421	24-Jan-24	JANASENA PARTY	

Account no.	Political Party Prefix	Bond\Number	Denominations \
0	*****5199	OC	775 10000000
1	*****5199	OC	3975 10000000
2	*****5199	OC	3967 10000000
3	*****5199	TL	10418 1000000
4	*****5199	TL	126 1000000
...
20416	*****3929	TL	2619 1000000
20417	*****3929	TL	2608 1000000
20418	*****3929	TL	2633 1000000
20419	*****3929	TL	2627 1000000
20420	*****3929	TL	2631 1000000

Pay Branch\Code	Pay Teller
0	800 2770121
1	800 2770121
2	800 2770121
3	800 2770121
4	800 2770121
...	...
20416	847 7620160
20417	847 7620160
20418	847 7620160
20419	847 7620160
20420	847 7620160

[20421 rows x 9 columns]

In [9]: `company.shape`

Out[9]: (18871, 12)

In [10]: `party.shape`

Out[10]: (20421, 9)

In [11]: #Purchaser Name
`company['Name of the Purchaser'].value_counts()`

Out[11]: Name of the Purchaser

FUTURE GAMING AND HOTEL SERVICES PR	1208
MEGHA ENGINEERING AND INFRASTRUCTURES LI MITED	821
QWIKSUPPLYCHAINPRIVATELIMITED	410
HALDIA ENERGY LIMITED	395
VEDANTA LIMITED	386
...	
MR. SAMEER BHATIA	1
R.S.BROTHERS RETIAL INDIA PVT LTD	1
B.DAS AND ASSOCIATES PVT. LTD.	1
J B ENTERPRISE	1
GORUKANTI DEVENDER RAO	1

Name: count, Length: 1320, dtype: int64

In [12]: `company.head(5)`

Out[12]:

Sr No.		Reference No (URN)	Journal Date	Date of\rPurchase	Date of Expiry	Name of the Purchaser	Prefix	Bond\rNun
0	1	12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	TL	1
1	2	12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	TL	1
2	3	12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	TL	1
3	4	12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	OL	
4	5	12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	OL	

In [13]: company.tail(5)

Out[13]:

Sr No.		Reference No (URN)	Journal Date	Date of\rPurchase	Date of Expiry	Name of the Purchaser	Prefix	Bor
18866	18867	12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18867	18868	12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18868	18869	12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18869	18870	12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18870	18871	12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	

In [14]: party.head()

Out[14]:

Sr No.	Date of\Encashment	Name of the Political Party	Account no. of\Political Party	Prefix	Bond\bNumber	Denominations
0 1	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	OC	775	10000000
1 2	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	OC	3975	10000000
2 3	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	OC	3967	10000000
3 4	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	TL	10418	1000000
4 5	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	TL	126	1000000

◀ ▶

In [15]: `party.tail(5)`

Out[15]:

Sr No.	Date	Name of the Political Party	Account no. of\Political Party	Prefix	Bond\bNumber	Denominat
20416 20417	24-Jan-24	JANASENA PARTY	*****3929	TL	2619	1000000
20417 20418	24-Jan-24	JANASENA PARTY	*****3929	TL	2608	1000000
20418 20419	24-Jan-24	JANASENA PARTY	*****3929	TL	2633	1000000
20419 20420	24-Jan-24	JANASENA PARTY	*****3929	TL	2627	1000000
20420 20421	24-Jan-24	JANASENA PARTY	*****3929	TL	2631	1000000

◀ ▶

In [16]: `company['Denominations']=pd.to_numeric(company['Denominations'])`In [17]: `party['Denominations']=pd.to_numeric(party['Denominations'])`In [18]: `party.rename(columns={'Name of the Political Party':'Political Party'},inplace=True)`
`company.rename(columns={'Name of the Purchaser':'Purchaser Name'},inplace=True)`In [19]: `party['Political Party'].value_counts()`

```
Out[19]: Political Party
BHARATIYA JANATA PARTY                                8633
ALL INDIA TRINAMOOL CONGRESS                           3305
PRESIDENT, ALL INDIA CONGRESS COMMITTEE                3146
BHARAT RASHTRA SAMITHI                               1806
BIJU JANATA DAL                                     861
DRAVIDA MUNNETRA KAZHAGAM (DMK)                      648
YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU CONGRESS PARTY) 472
SHIVSENA                                         355
TELUGU DESAM PARTY                                 279
AAM AADMI PARTY                                  245
RASHTRIYA JANTA DAL                             150
NATIONALIST CONGRESS PARTY MAHARASHTRA PRADESH      121
JANATA DAL ( SECULAR )                            75
SIKKIM KRANTIKARI MORCHA                         50
ADYAKSHA SAMAJVADI PARTY                          46
JHARKHAND MUKTI MORCHA                           45
JANASENA PARTY                                    39
ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM          38
SHIROMANI AKALI DAL                             33
MAHARASHTRAWADI GOMNTAK PARTY                     28
GOA FORWARD PARTY                                17
BIHAR PRADESH JANTA DAL(UNITED)                  14
SIKKIM DEMOCRATIC FRONT                           10
JAMMU AND KASHMIR NATIONAL CONFERENCE             5
Name: count, dtype: int64
```

```
In [20]: #Converting Denominations to Crores
party['Denominations']=party['Denominations'] /1e7
company['Denominations']=company['Denominations'] /1e7
```

```
In [21]: #Rename the column to indicate values are in Crores
company.rename(columns={'Denominations':'Denominations (In Crores)'}, inplace=True)
party.rename(columns={'Denominations':'Denominations (In Crores)'}, inplace=True)
```

```
In [22]: party
```

Out[22]:

Sr No.	Date of\EnCashment	Political Party	Account no. of\Political Party		Prefix	Bond\Number	Denomina (In Cr)
			no.	Political Party			
0	1	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	OC		775
1	2	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	OC		3975
2	3	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	OC		3967
3	4	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	TL		10418
4	5	12-Apr-19	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	*****5199	TL		126
...
20416	20417	24-Jan-24	JANASENA PARTY	*****3929	TL		2619
20417	20418	24-Jan-24	JANASENA PARTY	*****3929	TL		2608
20418	20419	24-Jan-24	JANASENA PARTY	*****3929	TL		2633
20419	20420	24-Jan-24	JANASENA PARTY	*****3929	TL		2627
20420	20421	24-Jan-24	JANASENA PARTY	*****3929	TL		2631

20421 rows × 9 columns



In [23]: company

Out[23]:

Sr No.	Reference No (URN)	Journal Date	Date of Purchase	Date of Expiry	Purchaser Name	Prefix	Bor
0	1 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	TL	
1	2 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	TL	
2	3 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	TL	
3	4 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	OL	
4	5 12019000000000000000	12-Apr-19	12-Apr-19	26-Apr-19	A B C INDIA LIMITED	OL	
...
18866	18867 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18867	18868 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18868	18869 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18869	18870 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	
18870	18871 12024000000000000000	11-Jan-24	11-Jan-24	25-Jan-24	WESTWELL GASES PRIVATE LIMITED	OC	

18871 rows × 12 columns



In [24]:

```
unique_companies=company['Purchaser Name'].unique().tolist()
num_unique_companies=len(unique_companies)
print("Total Companies who purchased Electoral Bonds: ", num_unique_companies)
```

Total Companies who purchased Electoral Bonds: 1320

In [25]:

```
unique_companies
```

```
Out[25]: ['A B C INDIA LIMITED',
          'ACROPOLIS MAINTENANCE SERVICES PRIVATE LIMITED',
          'ARIHANT ENTERPRISES',
          'CHOWDHARY GARMENTS',
          'ESSEL MINING AND INDS LTD',
          'GRASIM INDUSTRIES LTD',
          'HIGHSTREET CRUISES AND ENTERTAINMENT PVT LTD',
          'INNOCENT MERCHANDISE PVT LTD',
          'KAMLANG SAW & VENEER MILLS PVT LTD',
          'MEGHA ENGINEERING AND INFRASTRUCTURES LTD',
          'MERLIN RECREATION PVT LTD',
          'MSPL LTD',
          'MYRIAD DEVELOPERS',
          'OMKAR VENTURES PVT LTD',
          'PATEL HIGHWAY MANAGEMENT PVT LTD',
          'PHL FINIVEST PVT LTD',
          'PIRAMAL CAPITAL AND HOUSING FINANCE LTD',
          'PIRAMAL ENTERPRISES LTD',
          'PONUGOTI HEMENDAR RAO',
          'RENUKA INVESTMENTS AND FINANCE LTD',
          'RENUKESHWAR INVESTMENTS PVT LTD',
          'SHIVAM TRANSCON PRIVATE LIMITED',
          'SKYWORLD DEVELOPERS LLP',
          'TEXPORT CREATION',
          'ALOK NARAYAN PANDEY',
          'BELLWEY INTERNATIONAL CO',
          'CHHATTISGARH DISTILLERIES LIMITED',
          'DEMPO INDUSTRIES PVT LTD',
          'GUJARAT FLUORO CHEMICALS LIMITED',
          'KOTESWAR RAO GULLAPALLY',
          'MANDADI RAMULU',
          'MOHINDER KUMAR JAIN',
          'MR RAJ DEEPAK VARSHNEY',
          'MS PEARL GLOBAL INDUSTRIES LTD FORM',
          'OCEAN SPARKLE LTD',
          'PAPPI REDDY KISHORE KUMAR REDDY',
          'PEDDIREDDY RAMANJANEYA REDDY',
          'PREMCHAND GODHA',
          'PRL DEVELOPERS PRIVATE LIMITED',
          'RAVINDER AGARWAL',
          'SANGIREDDY THIRUPATHI REDDY',
          'SHAHAB RIZVI',
          'SHANKARANARAYANA CONSTRUCTIONS PVT',
          'SRI KRISHNA INFRASTRUCTURES',
          'SUN PHARMA LABORATORIES LIMTED',
          'SUN PHARMA LABORATORIES LTD',
          'SWAPNA CHENNAVARAM',
          'UTKAL ALUMINA INTERNATIONAL LIMITED',
          'VARDHMAN TEXTILES LTD',
          'VASSUDEVA DEMPO FAMILY PRIVATE TRUST',
          'VINAY AGARWAL',
          'CAVALIER TRANSPORTERS PRIVATE LIMITED',
          'IDEAL REAL ESTATES PRIVATE LIMITED',
          'JAI SUSPENSION SYSTEMS LLP',
          'JUBILANT LIFE SCIENCES LIMITED',
          'KEVENTER FOODPARK INFRA LIMITED',
          'KEYSTONE REALTORS PVT LTD',
          'MODERN ROAD MAKERS PVT LTD',
          'MUTHOOT FINANCE LTD',
          'OMKAR REALTORS PROJECTS PVT LTD',
          'P SHIVA SHANKAR REDDY',
          'PEGASUS PROPERTIES PVT LTD',
          'POLINA GANESWARARAO',
          'PRIME SALES CORPORATION',
          'QUALITY MAINTENANCE VENTURE LTD',
          'RAIPUR BOTLING COMPANY',
          'S R C CHEMICALS PVT LTD',
          'SANJAY JAIN',
          'SDS LOGISTICS PRIVATE LIMITED',
          'SHAURYAVIR CARRIERS PRIVATE LIMITED',
          'SK INFRA',
          'SNS CLOTHING PVT LTD',
          'SREE KRUTHI',
```

'ST PATRICKS REALTY PVT LTD',
'SWETA ESTATES PVT LTD',
'THE SUPREME INDUSTRIES LTD',
'UM CABLES LIMITED',
'VEDANTA LIMITED',
'ACE COMERCIAL COMPANY PRIVATE LIMITED',
'DEVEN CHAND JAIN',
'JUPITER MERCANTILES PVT LTD',
'RAJEEV KUMAR JAIN',
'AISHWARYA BUSINESS CORPORATION PVT, LTD',
'ANJANI ROADLINES',
'APOLLO TYRES LIMITED',
'B2C CONSULTING LLP',
'BAJAJ AUTO LTD',
'BAJAJ FINANCE LTD',
'BAJAJ HOLDINGS & INVESTMENT LIMITED',
'BHARTI AIRTEL LIMITEDAIRTEL CURRE NT AC-GCO',
'BHARTI INFRATEL LIMITED',
'FASTWAY TRANSMISSIONS PVT LTD',
'FINOLEX CABLES LTD',
'GRAUER AMP WEIL INDIA LIMITED',
'HUB POWER COMPANY',
'INOX AIR PRODUCTS LTD',
'INOX LEISURE LTD',
'LAKSHMI NIWAS MITTAL',
'LALIT GULATI',
'M/SGAURAV INTERNATIONAL',
'MEHERFOUNDATIONSANDCIVILENGPVT',
'MOTOWN TRADING PVT LTD',
'MR. VIJAY KUMAR GOYAL',
'NAVAYUGA ENGINEERING COMPANY LIMITED',
'ORIENT FASHION EXP (I) PVT LTD',
'RICHA & CO',
'RICHA GLOBAL EXPORTS PRIVATE LIMITED',
'SAMMAN LAL SHER SINGH PAPERS PVT LT',
'SANDEEP KHANNA AND ASSOCIATES',
'SARD INDIA PRIVATE L',
'SARITA HANDA EXPORTS PVT LTD',
'SAURABH GUPTA',
'SHAHIEXP',
'VIKAS KUMAR GARG',
'VM SALGAOCAR CORPORATION PVT LTD',
'WELSPUN ENTERPRISES LTD',
'ADIT BUILD WELL PVT LTD',
'C MACKERTICH PVT LTD',
'CH UDAYA SANKAR',
'CV SRINIVASA',
'DERIVE TRADING AND RESORTS PRIVATE LIMIT',
'DERIVE TRADING AND RESORTS PRIVATE LIMITED',
'GANNON DUNKERLEY AND CO LIMITED',
'GOURAV KUMAR',
'K RAHEJA CORP PVT LTD',
'KAYPEE ENTERPRISES',
'LOTUS TEXPARK LIMITED FORMERLY LOTUS INT EGRATED TEXPARK LTD',
'M/SKJS AHLUWALIA',
'MEENU CREATION LLP',
'MR SAURABH BAKLIWAL',
'OM METALS DEVELOPERS (P) LTD.',
'R SURYA NARAYNARAJU',
'RADICO KHAITAN LIMITED',
'S D CORPORATION PVT LTD',
'SHIVALIK PRINTS LIMITED',
'SPPL PROPERTY MANAGEMENT PVT LTD',
'STAR CEMENT MEGHALAYA LIMITED',
'SUDHA COMMERCIAL COMPANY LTD',
'SULA VINEYARDS PVT LTD',
'T SIRISH BABU',
'UNNIKRISHNAN K',
'VAMONA DEVELOPERS PRIVATE LIMITED',
'AIS DISTRIBUTION',
'ECL FINANCE LTD',
'EDELWEISS HOUSING FINANCE LTD.',
'EDELWEISS RURAL CORPORATE SERVICE',

'FORCE MOTORS LTD',
'INDUSTRIAL TECHNO MAN POWER SUPPLY AND SERVICES PVT LTD',
'ISHAN TECHNICAL PLANT SERVICES PVT LTD',
'JAI BHARAT TECHNICAL SERVICES PVT LTD',
'JAI SUSPENSION SYSTEMS L L P',
'MADHYA PRADESH WASTE MANAGEMENT PR',
'PVR LTD',
'REAL TECHNICAL SOLUTIONS PVT LTD',
'ROSHINI DEVELOPERS PRIVATE LTD',
'TALENTO TECHNICAL PLANT SERVICES PVT LTD',
'AMBUJA HOUSING AND URBAN INFRASTRUCTURE CO. LTD.',
'AMBUJA REALTY EVENTS MANAGMENT LTD',
'COMFORT TRIMS PRIVATE LIMITED',
'GHCL LTD',
'GUWAHATI CARBON LIMITED',
'HALDIA ENERGY LIMITED',
'HITECH SYSTEMS & SERVICES LTD',
'INDIA GLYCOLS LTD',
'JINDAL POLY FILMS LIMITED',
'PHILIPS CARBON BLACK LTD',
'REGENT ELECTRO MECH PRIVATE LIMITED',
'TORRENT POWER LIMITED',
'TORRENT PHARMACEUTICALS LIMITED',
'ZENSAR TECHNOLOGIES LTD',
'BISHAN M AGARWAL',
'BRIGHT STAR INVESTMENTS PVT.LTD',
'CEAT LTD',
'DERIVE INVESTMENTS',
"DR.REDDY'S LABORATORIES LTD",
'ITC LIMITED',
'IVL DHUNSERI PETROCHEM INDUSTRIES PRIVAT E LIMITED',
'KISHAN M AGARWAL',
'M R F LIMITED',
'MADANLAL LTD.',
'SARITA MIRANIA AGARWAL',
'SEEMA MIRANIA AGARWAL',
'SHANKARRESOURCESPVTLTD',
'SHREE CEMENT LIMITED',
'SITARA DIAMOND PRIVATE LIMITED',
'SWAL CORPORATION LIMITED',
'HIND TERMINALS PVT LTD',
'INFOTELACCESSENTERPRISESPL00108',
'INFOTELBUSINESSSOLUTIONSLTDBR',
'INFOTELTECHNOLOGIESPRIVATELIMITE',
'KEC INTERNATIONAL LIMITED',
'LUMAX INDUSTRIES LIMITED',
'NEXG DEVICES PVT LTD',
'S.S.EARTHMOVERS AND LOGISTICS',
'WELSPUN CORP LTD',
'ASHUTOSH JYOTIPRASAD TAPARIA',
'ATHENA INFRASTRUCTURE LIMITED',
'BAGDOGRA REALTORS PVT LTD',
'BG SHIRKE CONSTRUCTION TECHNOLOGY PVT LTD',
'ENAM HOLDINGS PRIVATE LIMITED',
'ESTEE TRANSWAYS PRIVATE LIMITE',
'FAMY ENERGY PRIVATE LIMITED',
'FAMY STERI PVT LIMITED',
'INDRANI PATNAIK',
'INTERGLOBE AIR TRANSPORT LIMITED',
'INTERGLOBE REAL ESTATE VENTURES PVT LTD',
'JBM INDUSTRIES LIMITED',
'JMC PROJECTS INDIA LTD',
'K K RESOURCES PRIVATE LIMITED',
'LUCINA LAND DEVELOPMENT LIMITED',
'M/S VISION SECURITY SERVICES, PROP-MAJOR DEVENDRA NATH DAS',
'MAKARAND PLANTATIONS PVT LIMITED',
'MR. ABHIJEET SOLOMAN KAMBLE',
'MYTRAH ENERGY(INDIA) PRIVATE LIMITED',
'NARBHERAM VISHRAM',
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'SRI SIDDHARTH INFRATECH AND SERVICES I P',
'THE ANUP ENGINEERING',
'ARAVALI TECHNICAL SERVICES PVT LTD',
'ARIZONAGLOBALSERVICESPVTLTDBR',
'GLENMARK PHARMACEUTICALS LTD',
'MANKIND PHARMA LIMITED',
'MNMEDIAVENTURESPVTL108',
'ABHINAV JAIN',
'ALEMBICPHARMACEUTICALSLINCLRTGS',
'ALKEM LABORATORIES LIMITED',
'AMIT GUPTA',
'ARVIND LIMITED',
'FIOTEX COTSPIN PRIVATE LIMITED',
'HARSHIT CHHABRA',
'KULWANT SINGH',
'MANJIT KAUR',
'NAHAR BUILDERS AND DEVELOPERS LTD',
'PANACEA BIOTEC PHARMA LTD PHARMACEU',
'PARAMJIT SINGH S O JAGJIT SINGH',
'PIRAMAL PHARMA LIMITED',
'RMC SWITCHGEARS LTD',
'SAURABH JAIN',
'WELSPUN INDIA LIMITED',
'ANGEL FIBERS LIMITED',
'ASHOK CHOUDHARY',
'BEST AGROLIFE LIMITED',
'BIRD WORLDWIDE FLIGHT SERVICES INDI',
'DHARUV COTTON PROCESSING PVT LTD',
'DLF GARDEN CITY INDORE PVT LTD',
'J S K HOTELS P LTD',
'JYOTSNA AGGARWAL',
'KHUSHBU AGGARWAL',
'M M YARNS PVT LTD',
'PAWAN AGARWAL',
'PREM AGGARWAL',
'PREM AGGARWAL AND SONS HUF',
'RAGHAV COTSPIN PRIVATE LIMITED',
'RAMKRISHNA COTSPIN PVT LTD',
'S G AGARWAL & CO',
'SANDEEP AGGARWAL',
'SANDEEP AGGARWAL AND SONS HUF',
'SANVI SPINNING MILLS PVT LTD',
'SERVEALL LAND DEVELOPERS PVT LTD',
'SHINE COTSPIN PVT LTD',
'SNB MINERALS PRIVATE LIMITED',
'SUN OILNATURAL GAS DIV SUN PETRO P.',
'SUSTAINABLE SPINNING AND COMMODITIES PVT LTD',
'TRIBHUVAN SPINTEX PRIVATE LIMITED',
'UNITED PHOSPHORUS INDIA LLP',
'USHA AGGARWAL',
'USV PRIVATE LTD (FORMERLY USV LTD)',
'VEDANTA ELECTRICALS PRIVATE LIMITED',
'VIPIN AGGARWAL',
'VIPIN AGGARWAL AND SONS HUF',
'DCM SHRIRAM LTD',
'EVERSHINE INTERIORS CHENNAI PVT LTD',
'INORBIT MALLS INDIA PRIVATE LIMITED',

'PATEL ENGINEERING LTD.',
'ABNLINVESTMENTLIMITED',
'BIRLACARBONINDIAPRIVATELIMITED',
'RAJDHANI DEALERS PRIVATE LIMITED',
'VINEET NANDA',
'AMARAVATI TEKSYSTEMS PRIVATE LIMITE',
'DINESH KUMAR AGARWALLA',
'TEKREANT INDIA PRIVATE LIMITED',
'ANAND AGRAWAL',
'KAMAL MANOHAR',
'SHREE CHAND SARAOGI',
'SLICK SOFTWARE SOLUTIONS PRIVATE LI',
'SREE RAYALASEEMA HI STRENGTH HYPO LTD',
'DAMINI NATH',
'MAHESH NARAYAN KHADE',
'MR. KAUKNELLA VENU GOPAL',
'MANU VYAPAR (P) LTD.',
'RANJIT BUILDCON LIMITED',
'RANJIT PROJECTS PRIVATE LIMITED',
'RANJIT TOLL ROAD PRIVATE LIMITED',
'B G SHIRKE CONSTRUCTION TECHNOLOGY PVT L TD',
'BUILDOX DEVELOPERS LLP',
'LUPIN LIMITED',
'RAKESH PRAVINCHANDRA SHAH',
'BIOXGREEN TECHNOLOGY PRIVATE LIMITE',
'EFICENS SOFTWARE SERVICES PVT LTD',
'MAHINDRA & MAHINDRA LTD',
'MOHIT MINERALS LTD',
'MR KONARK RAJENDRA SHAH',
'PRAGATI ENTERPRISES',
'RITHWIK PROJECTS PRIVATE LIMITED',
'SOPANRAO BALKRISHNA DHASAL AGRO PRODUCTS LIMITED',
'BINOD KUMAR MAROTI',
'KIRITI VENTURES PRIVATE LIMITED',
'KONARK RAJENDRA SHAH',
'MARAL OVERSEAS LTD.',
'SMRITI AGRAWAL',
'TARLA RAJENDRA SHAH',
'CAPACITE INFRAPROJECTS LTD',
'DIPAN P SHAH',
'FUTURISTIC HANDLING SERVICES PVT LTD',
'INDER THAKURDAS JAISINGHANI',
'JAINENDRA P SHAH',
'LAXMI CIVIL ENGINEERING SERVICES PR',
'MAHABIR BANKA',
'RAUNAK GUPTA',
'SALASAR FINANCIAL ADVISORY SERVICES',
'SPECO INFRASTRUCTURES',
'UNIPRO TECHNO INFRASTRUCTURE PVT LTD',
'VIKAS PARASRAMPURIA',
'WPIL LIMITED',
'ANTIQUE INDIA PRIVATE LIMITED',
'KALPATARU PROJECTS INTERNATIONAL LIMITED',
'ARS COATED STEEL',
'ASIAN AGRI GENETICS LIMITED',
'BANSAL UDYOG PRIVATE',
'BISHOPS WEED FOOD CRAFTS PRIVATE LI',
'CANDY SPIRITS PVT LTD',
'CHAYA REAL ESTATE PVT LIMITED',
'CHENNAMANAGATHIHALLI SOLAR POWER PROJECT',
'CHIKKAHALLI SOLAR POWER PROJECT LLP',
'COMFORT TRIMS PRIVATE LIMITED DIVIS',
'CURATED LIVING SOLUTIONS PRIVATE LI',
'DINESH KUMAR LAKHANPAL',
'DIVYASREE HOLDINGS PVT LTD',
'DIVYASREE NSL INFRASTRUCTURE PRIVATE LIM ITED',
'DIVYASREE SOFTTECH REALTORS PVT LTD',
'GOODLUCK INDIA LIMITED',
'GORJA STEEL PROCESSORS',
'GREENKO MP01 IREP PRIVATE LIMITED',
'GUPTA VARUN',
'HANSVAHINI AUTO INTERIOR PVT LTD',
'HIMADRI KHAN',

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'HIREHALLI SOLAR POWER PROJECT LLP',
'HUNSANKODILLI SOLAR POWER PROJECT LLP',
'ILABS HYD TECHNOLOGY CENTRE PVT LTD',
'KCR ENTERPRISE LLP',
'KIRAN MAZUMDAR SHAW',
'M/S KAMAL ISPAT',
'MADAMAGERI SOLAR POWER PROJECT LLP',
'MARDI GRAS LIQUOR DIV OF MARDI GRAS',
'MIDAS PROJECTS PRIVATE LIMITED',
'MTC ISPAT PVT LTD',
'NSL RENEWABLE POWER PRIVATE LIMITED',
'PRABHAKAR RAO ASHA PRIYA PROPERTIES',
'PRABHAT HOMES PRIVATE LIMITED',
'RSLH AUTO SEAT TRIMS PVT LTD',
'TOPNOTCH PROJECTS PRIVATE LIMITED',
'VIJAY KUMAR GOYAL',
'AARISH SOLAR POWER PRIVATE LIMITED',
'AASHMAN ENERGY PRIVATE LIMITED',
'ANIMALA WIND POWER PRIVATE LIMITED',
'AUGMONT ENTERPRISES PRIVATE LIMITED',
'AXIS WIND FARMS (MPR DAM) PRIVATE LTD',
'BAPUNA ALCOBREW PRIVATE LIMITED',
'BRINDABAN NASKAR',
'DIVYESH POWER PRIVATE LIMITED',
'ELENA RENEWABLE ENERGY PRIVATE LIMITED',
'FORTUNE ESTATE DEVELOPERS PVT LTD',
'GREENKO ANANTAPUR WIND POWER PRIVATE LIMITED',
'GREENKO URAVAKONDA WIND POWER PRIVA',
'HERALD BEVERAGES PRIVATE LIMITED',
'JWIL INFRA LTD. (FORM. JITF WATER',
'K D LIQUOR AND FERTILIZER PVT LTD',
'LCCPROJECTSPRIVATELIMITED',
'PRESTIGE ESTATES PROJECTS LTD PREST',
'PRESTIGE GARDEN ESTATES PRIVATE LIM',
'PRESTIGE PROJECTS PVT LTD',
'PRESTIGE PROPERTY MANAGEMENT AND SE',
'R R KABEL LIMITED',
'SATEC ENVIR ENGINEERING (I) PVT LTD',
'SEI ARUSHI PVT LTD',
'SHREYAS RENEWABLE ENERGY PRIVATE LTD',
'SKEIRON RENEWABLE ENERGY AMIDYALA PRIVATE LIMITED',
'SOHINI DEVELOPERS LLP',
'TADAS WIND ENERGY PVT LTD',
'VAMSIRAM BUILDERS LLP',
'VAMSIRAM DEVELOPERS LLP',
'VAMSIRAMS JYOTHI LORVEN',
'VILLAGE DE NANDI PVT LTD RERA DESIG',
'VIPIN GUPTA',
'ZUVAN ENERGY PRIVATE LIMITED',
'AKSENTT TECH SERVICES LIMITED (UNITY TEL ECOM INFRASTRUCTURE)',
'ASKUS LOGISTICS PRIV',
...]
```

In [26]:

```
company_totals=company.groupby('Purchaser Name')[['Denominations (In Crores)']].sum()
# Display the total amount for each company
top_50 = company_totals.head(50)
```

In [27]:

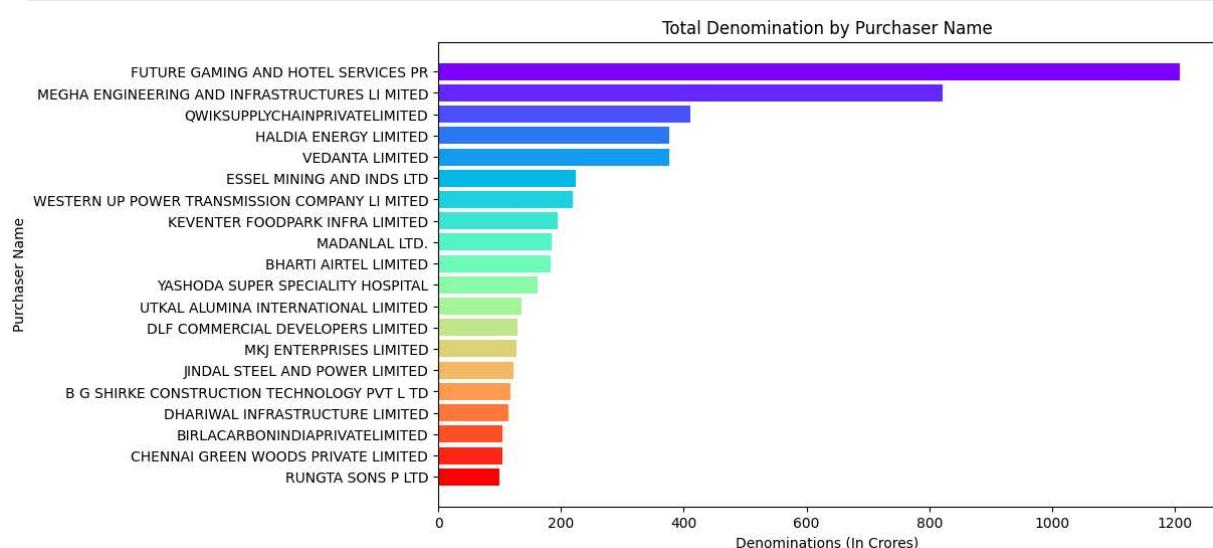
```
# Create a dynamic Pie chart
fig = px.pie(top_50, values='Denominations (In Crores)', names='Purchaser Name',
             title='Denomination Distribution by Political Party',
             hover_data=['Denominations (In Crores)'],
             labels={'Denominations (In Crores)': 'Denominations (In Crores)'},
             hole=0.6,
             width=800,
             height=600)

# Show the plot
fig.show()
```

```
In [28]: fig = px.bar(top_50, x='Purchaser Name', y='Denominations (In Crores)',  
                  title='Denomination Distribution by Political Party',  
                  color='Purchaser Name',  
                  hover_data=['Denominations (In Crores)'],  
                  labels={'Denominations (In Crores)': 'Denominations (In Crores)'},  
                  width=1100,  
                  height=700)  
  
# Show the plot  
fig.show()
```

```
In [29]: # take top 20 companies by electoral bond purchase
top_20 = top_50.head(20)

colors = plt.cm.rainbow(np.linspace(0, 1, len(top_20)))
# Plotting
plt.figure(figsize=(10, 6))
plt.barh(top_20['Purchaser Name'], top_20['Denominations (In Crores)'], color=colors)
plt.xlabel('Denominations (In Crores)')
plt.ylabel('Purchaser Name')
plt.title('Total Denomination by Purchaser Name')
plt.gca().invert_yaxis() # Invert y-axis to have the highest denomination on top
plt.show()
```



```
In [30]: unique_parties = party['Political Party'].unique().tolist()
num_unique_parties = len(unique_parties)
print("Total Parties :", num_unique_parties)
```

Total Parties : 24

```
In [31]: unique_parties
```

```
Out[31]: ['ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM',
'BHARAT RASHTRA SAMITHI',
'BHARATIYA JANATA PARTY',
'PRESIDENT, ALL INDIA CONGRESS COMMITTEE',
'SHIVSENA',
'TELUGU DESAM PARTY',
'YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU CONGRESS PARTY)',
'DRAVIDA MUNNETRA KAZHAGAM (DMK)',
'JANATA DAL ( SECULAR )',
'NATIONALIST CONGRESS PARTY MAHARASHTRA PRADESH',
'ALL INDIA TRINAMOOL CONGRESS',
'BIHAR PRADESH JANTA DAL(UNITED)',
'RASHTRIYA JANTA DAL',
'AAM AADMI PARTY',
'ADYAKSHA SAMAJVADI PARTY',
'SHIROMANI AKALI DAL',
'JHARKHAND MUKTI MORCHA',
'JAMMU AND KASHMIR NATIONAL CONFERENCE',
'BIJU JANATA DAL',
'GOA FORWARD PARTY',
'MAHARASHTRAWADI GOMNTAK PARTY',
'SIKKIM KRANTIKARI MORCHA',
'JANASENA PARTY',
'SIKKIM DEMOCRATIC FRONT']
```

```
In [32]: party_totals = party.groupby('Political Party')['Denominations (In Crores)'].sum()

# Display the total amount for each party
party_totals
```

Out[32]:

	Political Party	Denominations (In Crores)
5	BHARATIYA JANATA PARTY	6060.5111
3	ALL INDIA TRINAMOOL CONGRESS	1609.5314
16	PRESIDENT, ALL INDIA CONGRESS COMMITTEE	1421.8655
4	BHARAT RASHTRA SAMITHI	1214.7099
7	BIJU JANATA DAL	775.5000
8	DRAVIDA MUNNETRA KAZHAGAM (DMK)	639.0000
23	YSR CONGRESS PARTY (YUVAJANA SRAMIKA RYTHU C...	337.0000
22	TELUGU DESAM PARTY	218.8800
19	SHIVSENA	159.3814
17	RASHTRIYA JANTA DAL	73.5000
0	AAM AADMI PARTY	65.4500
12	JANATA DAL (SECULAR)	43.5000
21	SIKKIM KRANTIKARI MORCHA	36.5000
15	NATIONALIST CONGRESS PARTY MAHARASHTRA PRADESH	31.0000
11	JANASENA PARTY	21.0000
1	ADYAKSHA SAMAJVADI PARTY	14.0500
6	BIHAR PRADESH JANTA DAL(UNITED)	14.0000
13	JHARKHAND MUKTI MORCHA	13.5000
18	SHIROMANI AKALI DAL	7.2600
2	ALL INDIA ANNA DRAVIDA MUNNETRA KAZHAGAM	6.0500
20	SIKKIM DEMOCRATIC FRONT	5.5000
14	MAHARASHTRAWADI GOMINTAK PARTY	0.5500
10	JAMMU AND KASHMIR NATIONAL CONFERENCE	0.5000
9	GOA FORWARD PARTY	0.3500

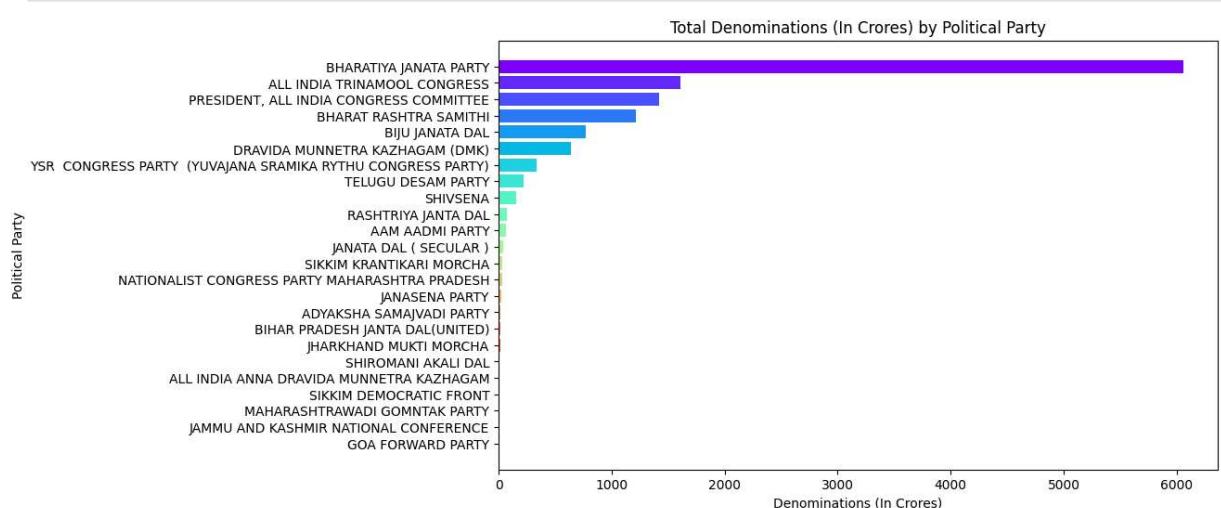
In [33]:

```
# Create a dynamic Pie chart
fig = px.pie(party_totals, values='Denominations (In Crores)', names='Political Party',
              title='Denomination Distribution by Political Party',
              hover_data=['Denominations (In Crores)'],
              labels={'Denominations (In Crores)': 'Denominations (In Crores)'},
              hole=0.5,
              width=800,
              height=600)

# Show the plot
fig.show()
```

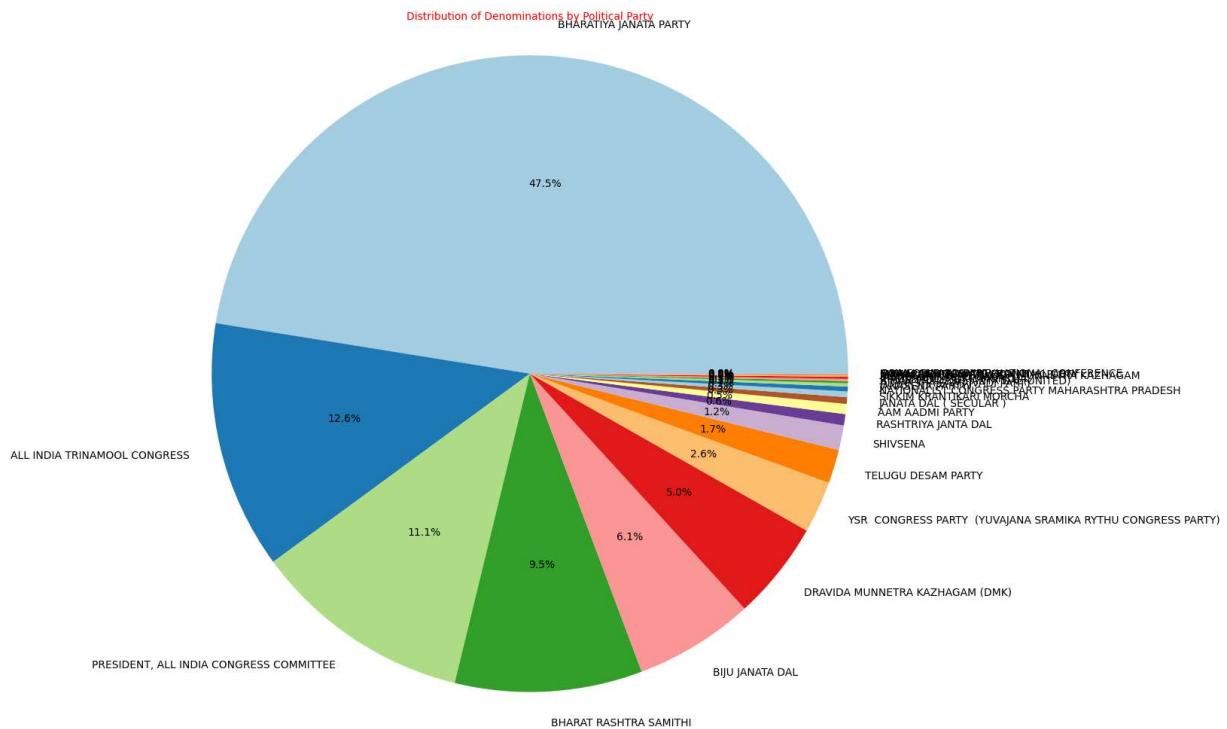
```
In [34]: fig = px.bar(party_totals, x='Political Party', y='Denominations (In Crores)',  
                    title='Denomination Distribution by Political Party',  
                    color='Political Party',  
                    hover_data=['Denominations (In Crores)'],  
                    labels={'Denominations (In Crores)': 'Denominations (In Crores)'},  
                    width=1100,  
                    height=700)  
  
# Show the plot  
fig.show()
```

```
In [35]: # Plotting
plt.figure(figsize=(10, 6))
plt.barh(party_totals['Political Party'], party_totals['Denominations (In Crores)'])
plt.xlabel('Denominations (In Crores)')
plt.ylabel('Political Party')
plt.title('Total Denominations (In Crores) by Political Party')
plt.gca().invert_yaxis() # Invert y-axis to have the highest denomination on top
plt.show()
```

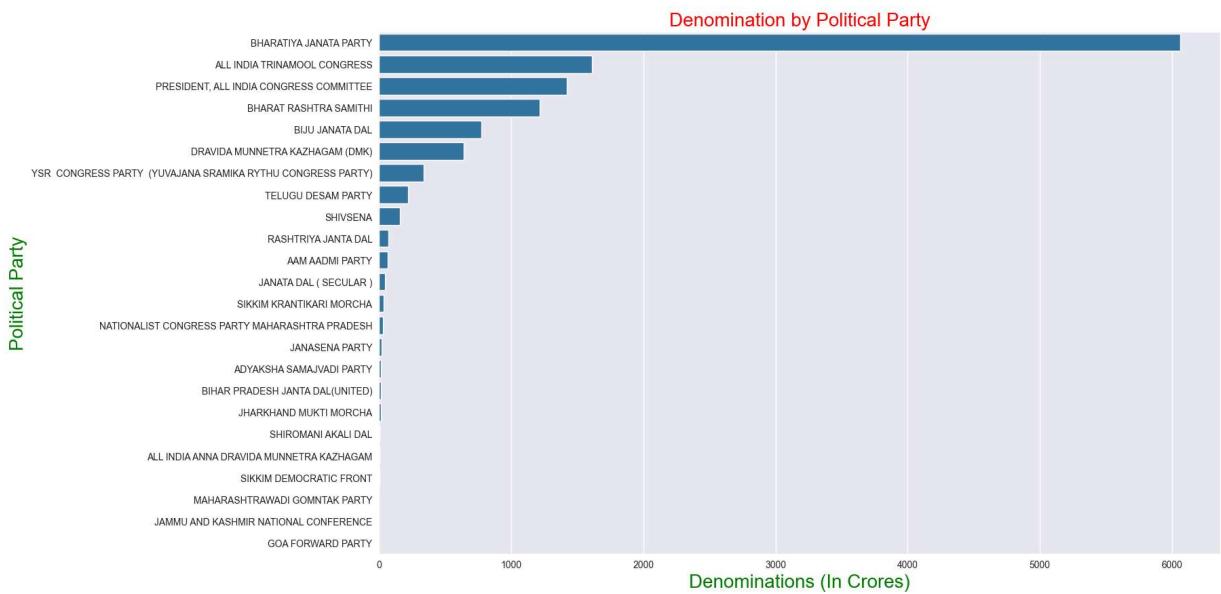


```
In [36]: # Plotting a pie chart
plt.figure(figsize=(12, 12))
plt.pie(party_totals['Denominations (In Crores)'], labels=party_totals['Political P
plt.axis('equal') # Equal aspect ratio ensures that pie is drawn as a circle
```

```
plt.title('Distribution of Denominations by Political Party', color='red', size=10)
plt.show()
```



```
In [37]: # Create a bar graph
sns.set_style('darkgrid')
plt.figure(figsize=(16,10))
# Assuming 'Political Party' and 'Denomination (Crore)' are the correct column name
sns.barplot(y='Political Party', x='Denominations (In Crores)', data=party_totals)
plt.xlabel('Denominations (In Crores)', color='green', size=20)
plt.ylabel('Political Party', color='green', size=20)
plt.title('Denomination by Political Party', color='red', size=20)
plt.show()
```



```
In [ ]:
```