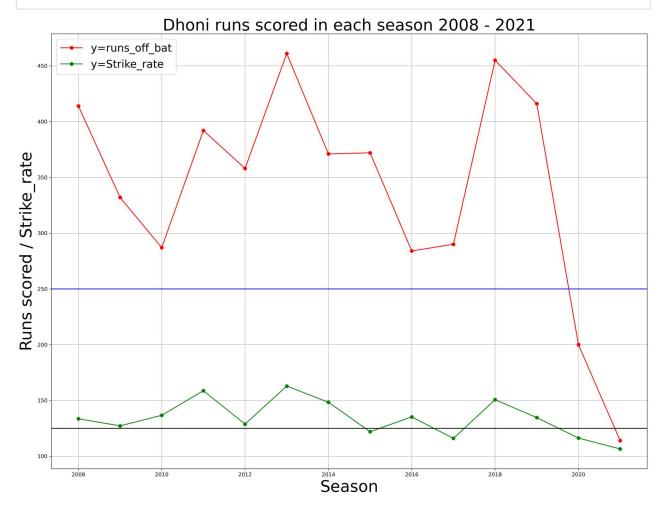
```
In [1]:
          import warnings
         warnings.filterwarnings('ignore')
          import pandas as pd
          import matplotlib.pyplot as plt
          pd.set_option('display.max_rows', None)
          pd.set_option('display.max_columns', None)
          pd.set_option('display.expand_frame_repr', False)
          pd.set_option('max_colwidth', -1)
In [2]:
         main_df = pd.read_csv('E:/Data Analytics/workshop/ABD vs Bumrah-20220218T052448Z-001/AB
In [3]:
         main_df.dtypes
        match id
                                    int64
Out[3]:
                                    int64
        season
        start_date
                                    object
        venue
                                    object
        innings
                                    int64
        ball
                                    float64
        batting_team
                                    object
                                    object
        bowling_team
        striker
                                    object
        non_striker
                                    object
        bowler
                                    object
        runs off bat
                                    int64
        extras
                                    int64
        wides
                                    float64
        noballs
                                    float64
        byes
                                    float64
        legbyes
                                    float64
                                    float64
        penalty
        wicket_type
                                    object
        player_dismissed
                                    object
                                    float64
        other_wicket_type
        other_player_dismissed
                                    float64
        dtype: object
In [4]:
         main df.head(1)
Out[4]:
           match_id season start_date
                                            venue innings ball batting_team
                                                                            bowling_team
                                                                                           striker nor
                                               Μ
                                                                       Royal
                              2008-04-
                                                                             Kolkata Knight
                                                                                              MV
                       2008
             335982
                                      Chinnaswamy
                                                        2
                                                            6.8
                                                                  Challengers
                                                                                                     (
                                   18
                                                                                   Riders Boucher
                                           Stadium
                                                                   Bangalore
In [5]:
         main_df = main_df[(main_df.innings == 1) | (main_df.innings == 2)]
         Dhoni_df = main_df[main_df.striker == 'MS Dhoni']
         Dhoni_df = Dhoni_df[(main_df.wides != 1.)]
         Dhoni_df = Dhoni_df[(main_df.wides != 2.)]
```

```
Dhoni_df = Dhoni_df[(main_df.wides != 3.)]
         Dhoni df = Dhoni df[(main df.wides != 5.)]
In [6]:
         Dhoni_df.ball.count() , Dhoni_df.runs_off_bat.sum(), Dhoni_df.runs_off_bat.sum()/Dhoni_
        (3494, 4746, 1.3583285632512878)
Out[6]:
In [7]:
         Dhoni_df_runs_by_year = pd.DataFrame(Dhoni_df.groupby('season')['runs_off_bat'].sum()).
         Dhoni df balls by year = pd.DataFrame(Dhoni df.groupby('season')['ball'].count()).sort
         Dhoni_df_dismiss_by_year = pd.DataFrame(Dhoni_df.groupby('season')['player_dismissed'].
         Dhoni_df_by_each_year = Dhoni_df_runs_by_year.merge(Dhoni_df_balls_by_year , on = 'seas'
         Dhoni_df_by_each_year['Strike_rate'] = 100* Dhoni_df_by_each_year.runs_off_bat/Dhoni_df
         Dhoni_df_by_each_year = Dhoni_df_by_each_year.merge(Dhoni_df_dismiss_by_year , on = 'se
         Dhoni df by each year = Dhoni df by each year.rename(columns={"player dismissed":"numbe
In [8]:
         Dhoni df by each year
Out[8]:
            season runs_off_bat ball Strike_rate number of times dismissed
         0
              2008
                           414 310 133.548387
                                                                   11
          1
              2009
                               261 127.203065
                                                                    8
         2
              2010
                                                                    9
                           287 210 136.666667
         3
              2011
                           392 247 158.704453
                                                                   11
         4
              2012
                              278 128.776978
                           358
                                                                   11
         5
              2013
                           461
                               283 162.897527
                                                                   12
         6
              2014
                           371
                              250 148.400000
                                                                    6
         7
              2015
                           372 305 121.967213
                                                                   16
         8
              2016
                           284
                               210 135.238095
                                                                    8
         9
              2017
                           290
                              250 116.000000
                                                                   13
         10
              2018
                           455
                              302 150.662252
                                                                    7
         11
              2019
                           416 309 134.627832
                                                                    6
         12
              2020
                               172 116.279070
                                                                    8
                           200
         13
              2021
                                                                    8
                           114 107 106.542056
In [9]:
         plt.figure(figsize = (20,15),dpi=300)
         # plt.legend(['label1', 'label2'])
         plt.plot(Dhoni_df_by_each_year.season,Dhoni_df_by_each_year.runs_off_bat, color='red',
         plt.plot(Dhoni_df_by_each_year.season,Dhoni_df_by_each_year.Strike_rate, color='green',
         plt.legend(["y=runs_off_bat", "y=Strike_rate" ], loc =2 , fontsize = 20)
         plt.axhline(250, ls = '-', color = 'blue')
         plt.axhline(125, ls = '-', color = 'black')
         plt.xlabel('Season',fontsize = 30)
         plt.ylabel('Runs scored / Strike_rate', fontsize = 30)
```

plt.title('Dhoni runs scored in each season 2008 - 2021', fontsize = 30)

plt.grid(True)
plt.show()



Based on above analysis, Dhoni is not consistent in last two seasons. According to previous batting analysis dhoni is not good enough to bat in upcoming season.