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COVID 19 & Exchange Market Pressure Index-Exploring the Currency Crisis in India

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ABSTRACT

The world economy has been quite volatile since the last century- a situation which has further worsened since the COVID-19 outbreak. The purpose of this paper is to examine the Exchange Market Pressure Index (EMPI) for gauging the currency crisis in Covid-19 period. EMPI is used in early warning system for predicting imminent financial crises. The data set of this study covers the period of January 2015 - June 2021 of Indian economy. The data has been retrieved from the RBI database. Exchange Market Pressure Index is the composition of percentage change in exchange rate, foreign exchange reserve and interest rate, it is used for the application of KLR model, Logit/Probit model and other models of early warning system. In this paper, we construct the EMPI and compare it with the threshold value for recognizing the currency crisis. In this study we found that India faced currency crisis in the month of February 2020, May 2020, July 2020 and December 2020 in the 78 months chosen as sample. The study will also attempt to look into the reasons behind this observation. This paper will help academicians, researchers, professionals in the construction of an index which may prove to be a useful tool in prediction of currency crisis.

Keywords: Covid-19, EMP Index, Currency Crisis, Threshold Value.

INTRODUCTION

"What we know about the global financial crisis is that we don't know very much." by Paul Samuelson (Ozili, 2020)

During the last three decades, the world economy has faced a number of financial crises, such as Mexican tequila crisis (1994), South East Asian currency crisis (1997), Russian financial crisis (1998), Argentine Great depression (1998-2002), Collapse of Lehman brother's crisis (2008) and most recently, the pandemic of COVID-19 (2020). These crises not only created financial complications for several countries but also shrunk the growth of world economy. Naturally, the financial market of India i.e., currency market, forex market, equity market also gets affected by these crises —as a corollary. Because of such adverse situations, Indian financial system often faces challenges in maintaining 'financial firmness' (Singh, 2011). The case of Novel Coronavirus came from China in 2019 which spread overall the world. As per World Health Organisation, this virus infected the approximately 29 crores people and approximately 54 lakhs death as on 5 January 2022. This pandemic resulted as a key risk for human health as well as economy health. It created distortion in domestic demand, external demand and international trade (Ministry of Finance, 2020).

According to Luca Fonaro (2015), financial crisis has been considered as an unexpected seize of international capital inflows, sharp decline in output, consumption, and assets prices. The

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financial crises could be divided into two broad groups- currency and sudden stop crises and debt, and banking crises (Balaga & Padhi, 2019). As per Yamini Karmarkar and Surbhi Vani (2014), there are many researchers who have been working on building early warning systems for predicting crisis and in recognizing the financial and economic indicators which give signals for crisis. An Early warning system is the mechanism that monitors, analyses and gives information about an upcoming crisis with the help of the movement or variability in financial indicators (Ionela, 2014). A Currency crisis is a situation in which countries face sharp devaluation of currency, huge exhaustion of foreign exchange reserves, increment in interest rates or forcing restrictions on capital flows (Balaga & Padhi, 2019). At this time countries are imposing restriction on international trade which affects the exchange rate, foreign reserves and interest rates -factors which may lead to currency crisis. In this paper, we construct an index for currency crisis which is known as Exchange Market Pressure Index (EMPI), this index is used in early warning system for the identification of currency crisis and also attempt to look into the reason behind crisis. Matthieu Bussiere and Marcel Fratzscher (2006) said in their paper, Exchange Market Pressure Index is the weighted average of the change of real effective exchange rate, change in foreign exchange reserves, and the change in the interest rate. Exchange market pressure index allows capturing successful and unsuccessful speculative attacks.

The following section provides a brief overview of existent literature in the context of the Impact of COVID-19 on the Indian Economy, EMP Index, its variables and applicability in predicting currency crisis in different scenarios.

REVIEW OF LITERATURE

COVID-19 and Indian Economy

In the wake of COVID-19 outbreak, The Indian economy faced crisis in all economic sectors. This crisis led the huge loss of employment approximately 13 million people between February to October 2020 (Ramakumar & Kanitkar, 2021). The According to IMF's World Economic Outlook (WEO) April 2020, the world economy is expected to contract by 3% in 2020 as a result of COVID -19 pandemic, even worse than during the 2008-2009 subprime crisis. In the Pandemic of COVID -19, RBI observed the large fluctuations in the prices of various assets such as currency, equity and bonds (RBI, 2020).

History of EMPI

Firstly, the concept of Exchange Market Pressure was proposed by Girton and Roper. EMP measures the entire pressure on Exchange rate, which has been relieved through exchange rate or intercepted through the foreign exchange reserves change. The monetary models worked directly in the measurement of exchange market pressure in early stages. But after some time EMPI is used for measuring exchange market pressure by the aggregation of changes in reserves and exchange rate (Patnaik, Felman, & Shah, 2017).

Weymark (1995) included the interest rate changes in EMP Index which was developed by the Girton & Roper (1977)

Concept of Exchange Market Pressure

Exchange market pressure is defined as the scale of money market disequilibrium that must be managed through exchange rates or foreign exchange reserves (Ratnasari & Widodo, 2017). According to Tsedevsuren & Batsuuri (2016), EMP Index reveals the tendency of domestic currency to grow/decline its value and equilibrium of the domestic money market. This index explains the pressure which is absorbed through the changes in nominal interest rate, increase/decrease in interest rate, or changes in official foreign reserves.

EMP Index shows the currency crisis through the large depreciation of exchange rate or large increament in interest rate or significant loss in foreign reserves (Guru & Sarma, 2016).

Matthieu Bussiere and Marcel Fratzscher (2006) stated in their study that currency crisis usually occurs after banking crisis. They used exchange market pressure in early warning system for calculating currency crisis. EMP Index is a weighted average of the movement in the interest rate, change in foreign exchange reserve and movement in real effective exchange rate. According to this study EMPI helps to capture the successful and unsuccessful speculative attacks.

Cuneyt Sevim et. al (2014) claimed that financial pressure index is defined as percentage of change of average of the gross foreign exchange reserve of the central bank and Repo rates (in terms of US Dollar Exchange Rate). An increment in US dollar Exchange rate & repo rate and decline in gross foreign exchange reserve of central banks tend to an increase in financial pressure index (FPI). Financial crises occur when the values of financial indicators crossed the threshold of FPI.

In the study of Anuradha Guru (2016), EMPI is constructed for currency market. Exchange market pressure index (EMPI) is the combination of at least two out of three variables, namely interest rate, exchange rate, and international reserves.

EMPI is constructed to help in the identification of currency crisis by tracking monthly changes in Exchange rate and international reserves (Balaga & Padhi, 2019).

EMPI is the sum of annualised changes in exchange rate and foreign reserves. Its main objective is to manage exchange market pressure and avoid currency crisis. In computation of EMP Index some researchers uses two out of three components (Exchange rate and Reserves) while other uses all three (Exchange rate, reserves and interest rate). The component of an exchange market pressure index depend on the structure of economy and the regime of exchange rate adopted. Those countries are practising fixed exchange regime, two components are considered in EMPI and economies practising flexible exchange ragime, three components are used in EMPI (Nigeria, 2016).

After the eruption of European Exchange Rate Mechanism (ERM) crisis in 1992, there is a plethora of studies constructed an EMP Index. Some of the noteworthy contributions in this context are mentioned below:

Variables of EMPI in different literature				
Variables	Authors			
1-Exchange Rate 2-Foreign Exchange Reserves	(Kaminsky, Lizondo, & Reinhart, 1998),			
1-Exchange Rate 2-Foreign Exchange Reserves 3-Interest Rate	(Weymark, 1995), (Bussiere & fratzscher, 2006), (Candelon, Dumitrescu, & Hurlin, 2014), (Sevim, Oztekin, Bali, Gumus, & Guresen, 2014), (Guru, 2016), (Nigeria, 2016), (Guru & Sarma, 2016) (Abdelsalam & Abdel-Latif, 2020)			

PROPOSED METHODOLOGY

The objective of this paper is to empirically construct an EMPI to measure currency crisis in India and observe the reasons behind crisis in COVID-19 Period. Recognition of currency crisis involves following steps: 3.1- Identification and selection of variables based on literatures and macroeconomic structure of the economy, 3.2- Calculate the monthly percentage change in variables, 3.3- Building of an EMPI, 3.4- Calculation of Threshold value, 3.5- Identification of Currency Crisis.

Identification of Variables and Selection of Variables

There are three aspects for recognizing the currency market pressure—depreciation in exchange rate, decline in foreign exchange reserve, increase in interest rates. EMPI is the combination of all three aspects (Guru & Sarma, 2016). In this study we have taken 78 months data of Real effective exchange rate (E_t) , foreign exchange reserve (R_t) , and real interest rate (I_t) of India.

Calculate the Monthly Percenta ge change in Variables

In this step, we compute e_t , r_t , and i_t are the monthly percentage changes in real effective exchange rate, foreign exchange reserve, and real interest rates (Sevim *et al.*, 2014).

$$e_t = (E_t - E_{t-1})/E_{t-1}$$
 $r_t = (R_t - R_{t-1})/R_{t-1}$
 $i_t = (I_t - I_{t-1})/I_{t-1}$
(See Table-1)

 e_t measures changes in real exchange rate, r_t reflects movement in foreign exchange reserves, i_t measures changes in real interest rat es.

Building of an EMPI

In this step, EMPI is constructed with the help of percentage change of the standardized average of real effective exchange rate, real interest rate, and foreign exchange reserve (Sevim et al., 2014).

$$EMPI = \frac{\left(\frac{e_t - \mu_e}{\sigma_e}\right) - \left(\frac{r_t - \mu_r}{\sigma_r}\right) + \left(\frac{i_t - \mu_i}{\sigma_i}\right)}{3}$$
 (eq.1)

where μ and σ are the mean and standard deviation of real effective excannge rate, foreign exchange reserve, and real interest rate respectively. (See Table-2)

Calculation of EMPI in different literatures

Authors	EMPI
(Abdelsalam & Abdel-Latif, 2020)	$EMPI_t = \delta \Delta ER_t - \zeta \Delta FR_t + \gamma \Delta IR_t$
(Balaga & Padhi, 2019)	$EMPI = \frac{\Delta E}{E} - \frac{\sigma_E}{\sigma_R} \frac{\Delta R}{R}$
(Guru, 2016)	$EMPI_t = e_t - \frac{\sigma_e}{\sigma_r} r_t + \frac{\sigma_e}{\sigma_i} i_t$

Authors	EMPI
(Sevim , Oztekin, Bali, Gumus, & Guresen , 2014)	$EMPI_{t} = \frac{\left(\frac{e_{t} - \mu_{e}}{\sigma_{e}}\right) - \left(\frac{r_{t} - \mu_{r}}{\sigma_{r}}\right) + \left(\frac{i_{t} - \mu_{l}}{\sigma_{l}}\right)}{3}$
(Kang, 2004)	$EMPI = \frac{\Delta e}{e} - \left(\frac{\sigma_e}{\sigma_R}\right) \frac{\Delta R}{R}$

Calculation of Threshold Value- TV is the computation of mean of EMPI with a factor, α of standard deviation.

$$TV = \mu_{empi} + \alpha \sigma_{empi}$$
 (eq.2)

 μ_{empi} is the mean of EMP Index σ_{empi} is the standard deviation of EMP Index σ is the coefficient value that improves the signal performance.

Different Coefficient values from the literature

a = 1.5	a = 2	a = 2.5	a = 3
(Kang, 2004),	(Bussiere & fratzscher,	(Edison, 2003)	(Kaminsky, Lizondo, &
(Sevim et al., 2014),	2006),	(Sevim et al.,	Reinhart, 1998),
(Megersa &	(Candelon, Dumitrescu,	2014)	(Berg & Pattillo, 1999),
Cassimon, 2015),	& Hurlin, 2014),		(Pukeliene & Deksnyte,
(Balaga & Padhi,	(Guru & Sarma, 2016),		2010)
2017)	(Sevim et al., 2014)		(Sevim et al., 2014)
(Balaga & Padhi,			(Guru & Sarma, 2016)
2019),			

3.5-Identification of Currency Crisis-In this step, the value of EMPI is compared to Threshold Value (TV), which represents in binary value (0,1).

$$1 if EMPI_t > TV, 0 Otherwise$$
 (eq.3)

Currency crisis define as an event '1', when the value of is more than the threshold value, otherwise there is no crisis '0'. (See Table-3)

RESULTS

In the pandemic of Novel Coronavirus (COVID-19), countries are controlling imports and exports, this influenced the value of currency. EMPI involves three variables, those have pressure on currency market. Depreciation in exchange rate, rise in interest rate, significant fall in foreign exchange reserve shows an attack on currency market. EMPI is calculated on monthly basis for the period of January 2015 to June 2021. The month in which the value of EMPI (by using eq. 1) is greater than Threshold Value (by using eq. 2) considered as currency crisis. We found, that the months of February 2020, May 2020, July 2020 and December 2020 was facing currency crisis because of sharp changes in exchange rates, foreign exchange reserve and changes in inflation which impacted real interest rate. The study determined and tabulating months, which reports currency crisis with different standard deviation levels. We are depicting analysis of data on yearly basis.

Year 2015

In Figure-1, We have not discovered any EMPI Value that are higher than the threshold value. As a result, there will be no currency crisis in 2015.

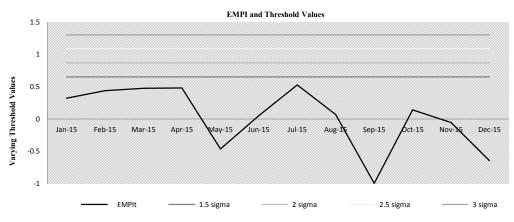


Figure-1

Year 2016

None of the months reflect or indicate a value of EMPI that is more than Threshold Value (See figure-2) in 2016. Therefore, there is no crisis.

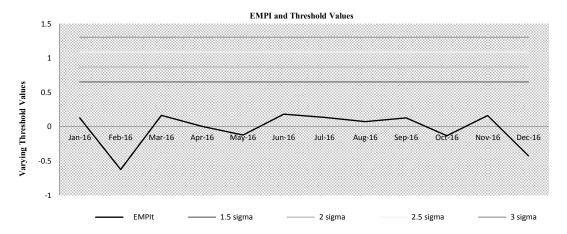


Figure-2

Year 2017

We have not found any value of EMPI greater than threshold value which means that there is no currency crisis in 2017 (See Figure 3).

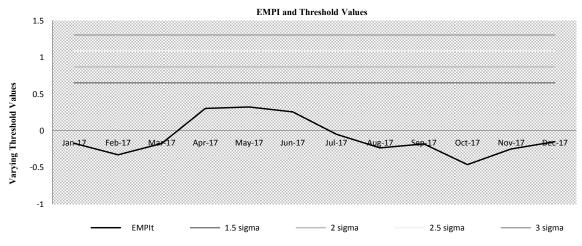


Figure-3

Year 2018

None of the month in 2018 reflects or indicates an EMPI Value greater than Threshold Value (See Figure-4). As a result, there is no currency crisis.

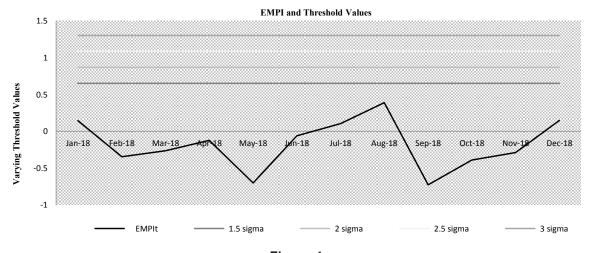


Figure-4

None of the month in 2018 reflects or indicates an EMPI Value greater than Threshold Value (Figure-4). As a result, there is not a crisis.

Year 2019

In figure-5, We have not found any value of EMPI is more than Threshold value. So there is no currency crisis in 2019.

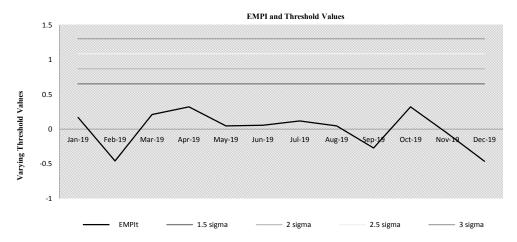


Figure-5

Year 2020

Due to the outbreak of COVID-19, financial market was very volatile after January 2020. It led the huge variations in Rupees. Advanced and Emerging countries' currency was facing downward pressure (RBI Bulletin, April 2020). We have found the values of EMPI are greater than Threshold Values in the month of February, May, July and December 2020 with different values 1.5, 2, 2.5, and 3 of standard deviation levels, which represents the currency crises (Figure-6).

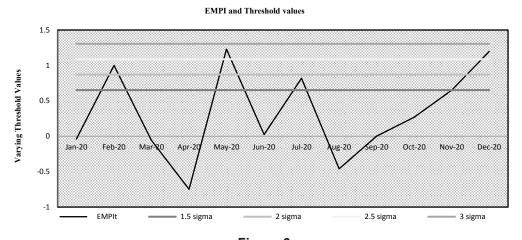


Figure-6

Currency crises are recognised in month of February with the coefficient of 1.5 and 2, May with the coefficient of 1.5, 2, and 2.5, July with the coefficient of 1.5 and 2, and December with the coefficient of 1.5, 2, and 2.5 (See tables a, b, c, d). The reason behind the currency crises are the high volatility in exchange rates, foreign exchange reserve and interest rate in the COVID -19 Period (RBI, 2020).

Table (a)

a values	EMPI February 2020	TV	EMPI>TV 0 or 1
a=1.5	0.999111199	0.651995985	1
a=2	0.999111199	0.86932798	1
a=2.5	0.999111199	1.086659976	0
a=3	0.999111199	1.303991971	0

Table (b)

a values	values EMPI TV May 2020		EMPI>TV 0 or 1
α=1.5	1.229093946	0.651995985	1
a=2	1.229093946	0.86932798	1
a=2.5	1.229093946	1.086659976	1
a=3	1.229093946	1.303991971	0

Table (c)

a values	EMPI July 2020	TV	EMPI>TV 0 or 1
a=1.5	0.817422455	0.651995985	1
a=2	0.817422455	0.86932798	1
a=2.5	0.817422455	1.086659976	1
a=3	0.817422455	1.303991971	0

Table (d)

a values	values EMPI TV December 2020		EMPI>TV 0 or 1
α=1.5	1.197123697	0.651995985	1
a=2	1.197123697	0.86932798	1
a=2.5	1.197123697	1.086659976	1
a=3	1.197123697	1.303991971	0

Year 2021

In the 2021 year, we are not able to search out the value of foreign exchange reserves from July 2021, we took data till June 2021. In Figure 7, there is no EMPI value over Threshold Value; therefore currency crisis is not pointed out in 2021 till June.

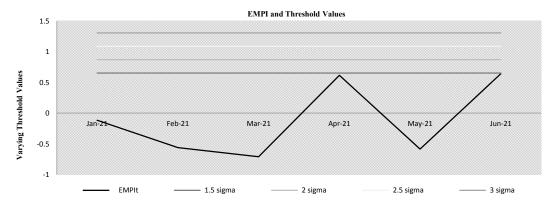


Figure-7

So, we have recognised February, May, July and December 2020 as currency crisis months out of 78 months (January 2015 to June 2021) with different heuristic values of sigma levels.

Interpretation

The currency market pressure is defined as a significant increment in EMPI value in comparison to threshold value (Guru & Sarma, 2016) such as the month of February, May, July and December 2020 show increment in EMPI value. The growth in exchange rate, loss of foreign exchange reserves and increase in interest rates leads to rise in exchange market pressure index value (Central Bank of Nigeria, 2016). An increament in EMPI value indicates excess demand of foreign currency and selling pressur on domestic currency in foreign exchange market, which leads to currency crisis (Guru & Sarma, 2016). So, the variations in real effective exchange rate, foreign reserves and interest rates exhibit the movements in EMPI value. In the 2020, Indian Economy faced sharp changes in exchange rates, huge outflows and inflows and high changes in interest rates, Which led currency crises in India in the months of February, May, July, and December.

CONCLUSION

In this study, we have constructed an EMPI (via eq.1) to measure the currency crisis by using three variables i.e., real effective exchange rate, real interest rate, foreign exchange reserve. We have also calculated Threshold Values by using eq. 2 and examine the reasons behind the currency crisis. In the proposed methodology, we used monthly percentage change in variables, percentage change in standardised average of variables, and different coefficient values. This study shows that no currency crises have been observed except in the months of February 2020, May 2020, July 2020 and December 2020 out of 78 months chosen for the study. Due to Novel Coronavirus, Indian economy was facing currency crises in 2020. This pandemic impacted the all economic sectors of Indian Economy. The results of this study can be used for the understanding of India's currency market.

IMPLICATION

Exchange Market Pressure Index is a composite measure of currency crisis. This study can be extended to find out the further Macroeconomic variables which impacts EMPI. Exchange Market Pressure Index may help the RBI to monitor the signals and fluctuations in currency market and take corrective action

for undesired movements in exchange rate, foreign reserves of central banks and interest rates. There is an ample room for future research to construct an index for financial crisis in the shock of COVID-19.

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APPENDIX

Table 1: Monthly Percentage change in Variables

				$e_t = (E_t - E_{t-1})/E_{t-1}$	$r_t = (R_t - R_{t-1})/R_{t-1}$	$i_t = (I_t - I_{t-1})/I_{t-1}$
Months	E_t	R_t	I_t	e_t	r_t	i _t
Jun-21	101.78	4542492	2.84	0	0.044420783	-0.006993007
May-21	101.78	4349293	2.86	0.021682393	-0.001528484	-0.424547284
Apr-21	99.62	4355951	4.97	-0.020741178	0.032472037	0.346883469
Mar-21	101.73	4218953	3.69	0.005634638	-0.017594087	-0.133802817
Feb-21	101.16	4294511	4.26	0.004169148	-0.002899467	-0.193181818
Jan-21	100.74	4306999	5.28	-0.009049774	0.006248931	0.1
Dec-20	101.66	4280252	4.8	-0.016352201	0.005401365	0.88976378
Nov-20	103.35	4257257	2.54	-0.011383203	0.025525788	0.329842932
Oct-20	104.54	4151292	1.91	0.008003086	0.032970106	-0.176724138
Sep-20	103.71	4018792	2.32	0.023891796	0.005660669	-0.216216216
Aug-20	101.29	3996171	2.96	-0.009485625	-0.000702179	-0.003367003
Jul-20	102.26	3998979	2.97	0.017613693	0.047245173	-0.148997135
Jun-20	100.49	3818570	3.49	-0.007408139	0.023142669	-0.022408964
May-20	101.24	3732197	3.57	0.007764284	0.033198755	0.332089552
Apr-20	100.46	3612274	2.68	0.00439912	0.002809152	-0.355769231
Mar-20	100.02	3602155	4.16	-0.041035475	0.037194581	0.178470255
Feb-20	104.3	3472979	3.53	-0.006193425	0.032658122	0.37890625
Jan-20	104.95	3363145	2.56	-0.006907646	0.025062193	-0.082437276
Dec-19	105.68	3280918	2.79	0.012357506	0.013512395	-0.410147992
Nov-19	104.39	3237176	4.73	-0.000478744	0.024695172	-0.165784832
Oct-19	104.44	3159160	5.67	0.007621804	0.028675105	-0.1

				$e_t = (E_t - E_{t-1})/E_{t-1}$	$r_t = (R_t - R_{t-1})/R_{t-1}$	$i_t = (I_t - I_{t-1})/I_{t-1}$
Months	$\boldsymbol{E_t}$	R_t	I_t	e_t	r_t	i_t
Sep-19	103.65	3071096	6.3	0.004165859	0.003222232	-0.105113636
Aug-19	103.22	3061232	7.04	-0.019846168	0.037400169	-0.016759777
Jul-19	105.31	2950869	7.16	0.018964683	-0.003875639	0.004207574
Jun-19	103.35	2962350	7.13	0.009080258	0.005935746	-0.017906336
May-19	102.42	2944870	7.26	0.006980631	0.006892991	-0.008196721
Apr-19	101.71	2924710	7.32	0.004047384	0.024100436	-0.00947226
Mar-19	101.3	2855882	7.39	0.026030588	-0.003053798	-0.039011704
Feb-19	98.73	2864630	7.69	-0.011018732	0.007718042	-0.073493976
Jan-19	99.83	2842690	8.3	-0.009328173	0.02961321	0.007281553
Dec-18	100.77	2760930	8.24	0.008809691	0.006705463	0.02615193
Nov-18	99.89	2742540	8.03	0.03309546	-0.054081274	0.153735632
Oct-18	96.69	2899340	6.96	-0.010236462	-0.001542795	0.051359517
Sep-18	97.69	2903820	6.62	-0.043661282	0.023942847	-0.006006006
Aug-18	102.15	2835920	6.66	-0.002051583	0.024482055	0.093596059
Jul-18	102.36	2768150	6.09	0.007381163	-0.004642115	0.140449438
Jun-18	101.61	2781060	5.34	0.008135728	0.000205	-0.007434944
May-18	100.79	2780490	5.38	-0.008265276	-0.009546573	-0.052816901
Apr-18	101.63	2807290	5.68	-0.006160767	0.016820907	-0.048576214
Mar-18	102.26	2760850	5.97	-0.009492445	0.007602134	0.013582343
Feb-18	103.24	2740020	5.89	-0.033333333	0.018712194	0.130518234
Jan-18	106.8	2689690	5.21	-0.009919347	0.02865655	0.011650485
Dec-17	107.87	2614760	5.15	0.000649351	0.009789875	-0.068716094
Nov-17	107.8	2589410	5.53	0.014492754	0.001535522	-0.195050946
Oct-17	106.26	2585440	6.87	0.003588969	-0.011266205	-0.045833333
Sep-17	105.88	2614900	7.2	-0.020355292	0.026937019	-0.019073569
Aug-17	108.08	2546310	7.34	0.000740741	0.009615156	-0.111380145
Jul-17	108	2522060	8.26	0.009817672	0.008078022	-0.103148751
Jun-17	106.95	2501850	9.21	-0.003354767	0.019947654	0.086084906
May-17	107.31	2452920	8.48	-0.005099203	0.023401743	0.105606258
Apr-17	107.86	2396830	7.67	0.015344065	-0.000571262	0.109985528
Mar-17	106.23	2398200	6.91	0.019383936	-0.013078297	-0.058583106

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Table 2: EMPI Construction

Months	$\frac{e_t - \mu_e}{\sigma_e}$	$\frac{r_t - \mu_r}{\sigma_r} \qquad \frac{i_t - \mu_i}{\sigma_i}$		$EMPI_{t} = \frac{\left(\frac{e_{t} - \mu_{e}}{\sigma_{e}}\right) - \left(\frac{r_{t} - \mu_{r}}{\sigma_{r}}\right) + \left(\frac{i_{t} - \mu_{i}}{\sigma_{i}}\right)}{2}$
	J e	σ_r	σ_i	$EMPI_t = \frac{\langle \theta_e \rangle \langle \theta_r \rangle \langle \theta_i \rangle}{3}$
Jun-21	-0.052319481	2.024883336	-0.049165022	0.641132944
May-21	1.381297475	-0.720087105	-2.414620462	-0.58447003
Apr-21	-1.423704264	1.311075362	1.955554079	0.614308393
Mar-21	0.320236852	-1.679832699	-0.767545773	-0.709047207
Feb-21	0.223340206	-0.801988472	-1.103929303	-0.56085919
Jan-21	-0.650680974	-0.255470902	0.556953043	-0.116399611
Dec-20	-1.133509777	-0.306103773	5.030984641	1.197123697
Nov-20	-0.804964828	0.896112281	1.859019011	0.650055488
Oct-20	0.476836091	1.340829581	-1.010696132	0.268989847
Sep-20	1.527380854	-0.290613205	-1.234419745	0.000782635
Aug-20	-0.679498991	-0.670724374	-0.028623621	-0.459615662
Jul-20	1.112279311	2.193610017	-0.853621964	0.817422455
Jun-20	-0.542137821	0.753746757	-0.136496803	0.025037378
May-20	0.461046805	1.354488861	1.871746171	1.229093946
Apr-20	0.238545704	-0.460960422	-2.024991069	-0.749135262
Mar-20	-2.765541768	1.593196151	1.001489003	-0.056952205
Feb-20	-0.461822237	1.322191898	2.136963937	0.999111199
Jan-20	-0.509045729	0.868417497	-0.476558696	-0.039062309
Dec-19	0.764745746	0.178442291	-2.333048111	-0.463286691
Nov-19	-0.083973514	0.846491982	-0.948724692	-0.062068741
Oct-19	0.451626168	1.084249811	-0.576051968	0.319941337
Sep-19	0.223122743	-0.43628335	-0.605020846	-0.272727151
Aug-19	-1.364527201	1.605477797	-0.104494017	0.045485526
Jul-19	1.201605359	-0.860304201	0.014286548	0.118529235
Jun-19	0.548057583	-0.274180324	-0.110989305	0.054295984
May-19	0.40923249	-0.216995302	-0.055984094	0.045417698
Apr-19	0.21528928	0.810962919	-0.063210052	0.321014049
Mar-19	1.668795566	-0.811208068	-0.23055174	0.209011919
Feb-19	-0.780866406	-0.167707474	-0.425894677	-0.458156186
Jan-19	-0.669088443	1.14029142	0.03170072	0.167634566

Months	$\frac{e_t - \mu_e}{\sigma_e}$	$\frac{r_t - \mu_r}{\sigma_r}$	$\frac{i_t - \mu_i}{\sigma_i}$	$EMPI_{t} = \frac{\left(\frac{e_{t} - \mu_{e}}{\sigma_{e}}\right) - \left(\frac{r_{t} - \mu_{r}}{\sigma_{r}}\right) + \left(\frac{i_{t} - \mu_{t}}{\sigma_{t}}\right)}{3}$
Dec-18	0.530167971	-0.228198084	0.138601878	0.146857255
Nov-18	2.1359174	-3.859546469	0.861366746	-0.287420774
Oct-18	-0.729143567	-0.720942072	0.281403486	-0.389560718
Sep-18	-2.939157412	0.801548741	-0.043573637	-0.727060769
Aug-18	-0.187967961	0.833760533	0.520674557	0.388822376
Jul-18	0.435715247	-0.906092808	0.786100124	0.105240855
Jun-18	0.485606255	-0.616530261	-0.051668608	-0.060864205
May-18	-0.59881081	-1.199081024	-0.308758532	-0.702216789
Apr-18	-0.459662874	0.376089999	-0.284734934	-0.12276927
Mar-18	-0.679949916	-0.174631686	0.067394851	-0.262395584
Feb-18	-2.256284314	0.489073889	0.729839604	-0.345790274
Jan-18	-0.708176264	1.083141341	0.056450829	0.143805302
Dec-17	-0.009385101	-0.043937906	-0.398827857	-0.150716955
Nov-17	0.905926099	-0.537045989	-1.114517959	-0.24854595
Oct-17	0.184979339	-1.301810379	-0.269196444	-0.462009161
Sep-17	-1.398189938	0.980418004	-0.117601712	-0.178457882
Aug-17	-0.003342485	-0.054375475	-0.640520776	-0.232746245
Jul-17	0.596814621	-0.14620254	-0.593889723	-0.047759214
Jun-17	-0.274133107	0.562879265	0.478123685	0.255623281
May-17	-0.389473382	0.769223625	0.588712636	0.32282096
Apr-17	0.962213893	-0.662903476	0.61352131	0.304277243
Mar-17	1.229325936	-1.410063211	-0.341424227	-0.174053834
Feb-17	0.756907043	-1.359228003	-0.384334835	-0.328885265
Jan-17	-0.56215231	-0.079330636	0.123224562	-0.172752794
Dec-16	0.075384903	-1.471282734	0.126411139	-0.423162231
Nov-16	-0.084230169	0.13469107	0.438761873	0.163074258
Oct-16	0.774813529	-1.305692657	0.132493939	-0.132795063
Sep-16	-0.16199087	-0.029865329	0.570770177	0.126304659
Aug-16	-0.245292372	-0.624133694	1.090455402	0.073676446
Jul-16	1.353488192	-0.618266895	-0.331190079	0.134677073
Jun-16	0.550931371	0.032520415	-0.040505884	0.180981967

Months	$rac{e_t - \mu_e}{\sigma_e}$	$\frac{r_t - \mu_r}{\sigma_r}$	$\frac{i_t - \mu_i}{\sigma_i}$	$EMPI_{t} = \frac{\left(\frac{e_{t} - \mu_{e}}{\sigma_{e}}\right) - \left(\frac{r_{t} - \mu_{r}}{\sigma_{r}}\right) + \left(\frac{i_{t} - \mu_{l}}{\sigma_{i}}\right)}{3}$
May-16	0.233967362	-0.296537777	-0.303074077	-0.121881497
Apr-16	0.532031211	0.006350758	-0.525360221	0.004340583
Mar-16	0.722352639	-0.518575501	0.290088226	0.164621788
Feb-16	-2.081073721	-0.229348941	0.434766228	-0.625218811
Jan-16	-0.052319481	0.534483427	-0.098997227	0.12772224
Dec-15	-0.665740408	-1.012585147	-0.247575725	-0.641967094
Nov-15	0.163734107	0.045539809	-0.366401434	-0.05237584
Oct-15	1.4543407	-0.406641011	-0.622199644	0.141833348
Sep-15	-1.139043848	-1.296490758	-0.542897877	-0.992810828
Aug-15	-0.749611726	1.009971023	-0.045358723	0.071666858
Jul-15	0.879491738	-0.839422979	1.541262549	0.527110436
Jun-15	0.594989528	-0.03663567	-0.400240846	0.052704337
May-15	-1.475776918	0.256383865	-0.166452489	-0.461948514
Apr-15	-0.273583667	1.420246901	0.295021777	0.48056167
Mar-15	0.638131959	0.783844046	0.007908242	0.476628082
Feb-15	0.424547597	1.044261925	-0.154152204	0.438219106
Jan-15	2.200957182	-0.551037812	-0.683957207	0.321987388

Source: Authors calculations

Data source: RBI database.

 E_t is real effective exchange rate, R_t is foreign exchange reserve, I_t is real interest rate (lending rate- consumer price index). e_t , r_t , and i_t are the percentage changes in real effective exchange rate, foreign exchange reserve, and real interest rates. μ and σ are the mean and standard deviation of effective exchange rate, foreign exchange reserve, and real interest rate.

Data of December 2014 is used for the calculation of changes in January 2015'Data.

Table 3: Threshold Value and Identification of Currency crisis

Months	EMPI,	Threshhold Value = μ_{empi} + $\alpha\sigma_{empi}$								
	Livii it	a = 1.5		a = 2		$\alpha = 2.5$		a = 3		
		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0		
Jun-21	0.641132944	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
May-21	-0.58447003	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	

Months	hs $EMPI_t$ $Threshhold Value = \mu_{empi} + \alpha \sigma_{empi}$								
	EMF1 _t	α = 1.5		a = 2		$\overline{\alpha = 2.5}$		a = 3	
		EMPIt>TV=		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0	
Apr-21	0.614308393	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Mar-21	-0.709047207	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Feb-21	-0.56085919	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jan-21	-0.116399611	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Dec-20	1.197123697	0.651995985	1	0.86932798	1	1.086659976	1	1.303991971	0
Nov-20	0.650055488	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Oct-20	0.268989847	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Sep-20	0.000782635	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Aug-20	-0.459615662	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jul-20	0.817422455	0.651995985	1	0.86932798	0	1.086659976	0	1.303991971	0
Jun-20	0.025037378	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
May-20	1.229093946	0.651995985	1	0.86932798	1	1.086659976	1	1.303991971	0
Apr-20	-0.749135262	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Mar-20	-0.056952205	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Feb-20	0.999111199	0.651995985	1	0.86932798	1	1.086659976	0	1.303991971	0
Jan-20	-0.039062309	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Dec-19	-0.463286691	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Nov-19	-0.062068741	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Oct-19	0.319941337	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Sep-19	-0.272727151	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Aug-19	0.045485526	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jul-19	0.118529235	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jun-19	0.054295984	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
May-19	0.045417698	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Apr-19	0.321014049	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Mar-19	0.209011919	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Feb-19	-0.458156186	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jan-19	0.167634566	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Dec-18	0.146857255	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Nov-18	-0.287420774	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0

Months	$EMPI_t$	Threshhold Value = $\mu_{empi} + \alpha \sigma_{empi}$							
	EMF1 _t	a = 1.5		a = 2		$\overline{\alpha = 2.5}$		a = 3	
		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0	
Oct-18	-0.389560718	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Sep-18	-0.727060769	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Aug-18	0.388822376	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jul-18	0.105240855	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jun-18	-0.060864205	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
May-18	-0.702216789	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Apr-18	-0.12276927	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Mar-18	-0.262395584	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Feb-18	-0.345790274	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jan-18	0.143805302	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Dec-17	-0.150716955	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Nov-17	-0.24854595	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Oct-17	-0.462009161	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Sep-17	-0.178457882	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Aug-17	-0.232746245	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jul-17	-0.047759214	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jun-17	0.255623281	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
May-17	0.32282096	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Apr-17	0.304277243	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Mar-17	-0.174053834	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Feb-17	-0.328885265	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jan-17	-0.172752794	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Dec-16	-0.423162231	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Nov-16	0.163074258	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Oct-16	-0.132795063	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Sep-16	0.126304659	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Aug-16	0.073676446	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jul-16	0.134677073	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
Jun-16	0.180981967	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0
May-16	-0.121881497	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0

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Months	$EMPI_t$	Threshhold Value = μ_{empi} + $\alpha \sigma_{empi}$								
	LMF1 _t	a = 1.5	a = 2	$\alpha = 2$		$\overline{\alpha = 2.5}$		a = 3		
		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0		EMPIt>TV=1, Otherwise 0		
Apr-16	0.004340583	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Mar-16	0.164621788	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Feb-16	-0.625218811	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Jan-16	0.12772224	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Dec-15	-0.641967094	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Nov-15	-0.05237584	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Oct-15	0.141833348	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Sep-15	-0.992810828	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Aug-15	0.071666858	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Jul-15	0.527110436	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Jun-15	0.052704337	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
May-15	-0.461948514	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Apr-15	0.48056167	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Mar-15	0.476628082	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Feb-15	0.438219106	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
Jan-15	0.321987388	0.651995985	0	0.86932798	0	1.086659976	0	1.303991971	0	
	1.30238E-16									
	0.43466399									

Source: Authors calculation

Social Criticism in the Poetry of William Blake

Dr. Madhu Jain*

Pen is mightier than the sword and when this pen is dipped in bright colours and accompanied by superb designs, the impact is indelible. William Blake had three professional careers, which brought him to the notice of the contemporary connoisseurs, first as a competent engraver, for which he was trained for seven years (1772_79) as an apprentice under Basire; second as an original and powerful designer, an inventor of graphic ideas, for which he studied at the Royal Academy and third, as an untutored author of appealing lyrics, bewildering prophecies and outrageous criticism. He was a philosopher, reformer and the champion of freedom. He wished to purge the society of the evils prevalent therein. He was a rebel who showed strong hatred for established forms of Government and justice.

He was drastically annoyed to see the domination of reason, identified with political tyranny, psychological repression, sexual frustration and the is trafficking of the stifling of imagination of poetic genius in the eighteenth century England. So he was venomously against the then prevalent corruption and waged a life long struggle against them. He witnessed the industrial revolution and its repercussions on society. He was pained to see mankind groaning under iron wheels of dehumanized machines and iron chains of repression crushing the very happiness and life of human beings. People became jobless. child labour prevailed, the society became materialised and it was arid, devoid of love, peace and mercy. As he was intrinsically a painter and a poet, his acidity against this corruption flowed out of his pen in the form of his poetry.

London in **The Songs Of Experience** presents a satirical criticism of the society in which he lived. London is depicted with all its dark, ugly, negative, sordid and evil aspects. The lonely wanderer in London is horrified to see:

In every cry of every Man.
In every Infants cry of fear
In every voice; in every ban.
The mind forged manacles I hear

His compassionate heart was outraged and wounded by the suffering which society inflicts on its humbler members. Human beings are sacrificed at the altar of efficient working operation of rules and laws. How is it possible that a civilized society should tolerate such abnormalities as chimney _sweepers and harlots. The helpless and poor chimney sweeper is condemned to a life of misery and it is supported by the church. The hapless soldier's sighs suggest the lack of military authority. A soldier must enjoy authority and power but he is exploited by the court. The cursed life of a harlot is forced upon her by the marriage _laws. The poet laments:

How the Chimney _sweeper'scry, Every black'ningChurch appals;

And the hapless Soldier's sigh,

Runs in blood down Palace walls.

The poem highlights the callousness of society,, adversity of war,lust_a torture_physical and mental; indifference of government, church and the whole ruling and upper class.

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The Holy Thursday is a slap of Blake on his contemporary society. It exposes the hypocrisy of the so called benevolent who are very proud that they have done great social service by opening charity schools for the poor. Here his attack becomes more concentrated. The children educated at Charity schools are shown going to church to show their thankfulness, they are called **the flowers** while **the Grey headed beadles with wands as white as snow** are at their heels to crush them as snow crushes flowers. Blake says that in the state of Innocence, there ought to be no restrictions, no regimentation, no marching, no controlling guardians, there ought to be merely free, uninhibited play on the echoing green. All the restrictions destroy Innocence. Innocence can be preserved not by going to church but by freely and spontaneously frisking like a mighty wind raising to heaven the voice of their song. But we are shocked to see **Is that trembling cry a song.**

The Holy Thursday is seen as an outraged admonition to a society which could congratulation itself on the charity children's procession. In the Holy Thursday of Experience, the children are hungered. They are starved or semi starved. It is the unjust social system that has brought about the draught to the poor.

And their sun does never shine, And their fields are bleak and bare, And their ways are filled with thorns, It is eternal winter there.

Another poem **The Little Vagabond** presents a stinging satire on the state of affairs in churches. The drawbacks and the inhumanity of the church is exposed when the little child expresses a strong preference to be in the ale_house. The child says to his mother:

But if at the church they would give us some Ale, And a pleasant fire our souls to regale, We'd sing and we'd pray all the live_long day, Nor ever once wish from the church to stray.

A little Boy Lost is a scathing satire on religious fanaticism and persecution. The little boy asked The Holy Father and priest how he can love others and his fellow human beings more than himself. The priest interprets this heresy against the moral law of duty. So standing on the urizenic altar, the priest declared that the boy was the very devil and dared judge the holy mystery of religion on the touchstone of reason. Religion, thus only teaches blind faith and superstition and reactionary thinking. The free play of imagination in Innocence is destroyed by tyrant priests who work by reason and rationality and not by heart. The child who is as Innocent as a little bird, is sacrificed at the altar of religion. He has to pay the penalty with his head.

The weeping child could not be heard, They stripped him to his little shirt, And bound him in an iron chain, And burned him in a holy place,

WHERE MANY HAVE BEEN BURNED BEFORE.

Poetry of William Blake was the literature of challenge and of reconstruction of new values The milieu in which his poems were written was the primary motivating force for him. He fully realised his human and social responsibility. His poetry raises it's voice against authority and establishment and he