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- (d) if so, whether reforms in power sector is imperative as estimated financial loss amounts to over 4 per cent of GDP; and
 - (e) if so, the steps taken by Government in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI PIYUSH GOYAL): (a) and (b) As per the International Energy Agency (IEA) publication on World Energy Statistics 2013, India ranks 5th in Electricity production and 110th in the percapita consumption of electricity.

(c) to (e) The demand supply mismatch has been reducing. The peak shortage has reduced from 8.5% in 2010-11 to 4.2% in 2013-14 and energy deficit has reduced from 9.5% in 2010-11 to 4.5% in 2013-14.

A Reforms Monitoring Unit (RMU) constituted in May, 2011, is already working under Central Electricity Authority to monitor reforms process in the power sector, initiated by the Electricity Act, 2003, the National Electricity Policy, 2005 and the National Tariff Policy, 2006. The progress in implementation of the reforms is monitored regularly by this RMU.

Hydro power projects

3465. SHRI BASAWARAJ PATIL: Will the Minister of POWER be pleased to state:

- (a) the number of hydro power projects in the country;
- (b) the number of those projects which have not been commenced, State-wise;
- (c) the steps taken by Government to start these projects; and
- (d) the mechanism to find out the potential of hydro projects and whether any hydro power project had been surveyed in Raichur district under Krishna Basin *i.e.* Golapally Hydro Project?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI PIYUSH GOYAL): (a) As on 31.07.2014, there are 188 Hydro Electric Projects (HEPs) with installed capacity of 40798.75 MW (having station capacity above 25 MW) under operation in the country.

(b) At present, 40 HEPs aggregating to Installed capacity of 26,080 MW, concurred by Central Electricity Authority (CEA) are yet to be taken up for construction. State-wise details are given in the Statement (*See* below).

(c) Out of above 40 concurred HEPs/Schemes, 30 HEPs/Schemes could not be commenced due to non-availability of environment/forest clearances and other difficulties.

Ministry of Power/CEA reviews above projects with the project developers and the concerned authorities periodically for resolving the issues.

The potential of Hydro Projects in the country was assessed by CEA during 1978-87 utilizing hydrological, meteorological and other related data collected from various sources including information obtained from the detailed study of Topographical maps available at that time. The study also took into account the available information regarding diversions of water for irrigation and other purposes of all the schemes which were in operation or under construction.

While assessing the hydro potential of a particular project, the discharge data and the available head between the diversion structure and tail race has been taken to make an assessment of the hydro potential in terms of Installed Capacity and energy generation.

CEA has not identified Golapally Hydro Project in Krishna Basin in Raichur district in the above re-assessment study.

Statement Hydro Electric Schemes concurred by CEA and yet to be taken up for construction since 2002-03

Sl. No.	Scheme/Sector	Installed Capacity (MW)
<u>0</u>	Northern Region	
	Jammu and Kashmir	
1.	Pakal Dul/Central	1000
2.	New Ganderwal	93
	Himachal Pradesh	
3.	Kutehr/Private	240
4.	Miyar/Private	120
5.	Chango Yangthang	180
	Uttarakhand	
6.	Kotlibhel St-IA/Central	195

216	Written Answers to	[RAJYA SABHA]	Unstarred Questions
Sl. No.	Scheme/Sector		Installed Capacity (MW)
7.	Kotlibhel St-IB/Cent	ral	320
8.	Kotlibhel St-II/Centr	al	530
9.	Pala Maneri/State		480
10.	Alaknanda/Private		300
11.	Rupsiyabagar Khasiy	yabara/Central	261
12.	Vyasi/State		120
13.	Devsari/Central		252
Si	Sub- Total: NR		4091
	Western Region		
	Chhattisgarh		
14.	Matnar/State		60
	Sub- Total: WR		60
	Eastern Region		
	West Bangal		
15.	Rammam St-III/Cen	tral	120
	Odisha		
16.	Jalaput Dam Toe/Pri	vate	18
	Sikkim		
17.	Teesta St-IV/Central		520
	Sub - Total: ER		658
	Southern Region		
	Kerala		
18.	Athirappilly/State		163
	Andhra Pradesh		
19.	Indirasagar (Polavara	am)/State	960
	Karnataka		
20.	Gundia/State		200
	Sub - Total: SR		1323

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Scheme/Sector		Installed Capacity (MW)
N-E Region		*
Manipur		
Tipaimukh/Central		1500
Loktak D/S/Central		66
Arunachal Pradesh		
Dibang/Central		3000
Dibbin/Private		120
Lower Siang/Private		2700
Nafra/Private		120
Nyamjang Chhu/Privat	e	780
Tawang St-I/Central		600
Tato-II/Private		700
Tawang St-II/Central		800
Demwe Lower/Private		1750
Gongri/Private		144
Hirong/Private		500
Etalin/Private		3097
Talong Londa/Private		225
Naying/Private		1000
Siyom		1000
Kalai-II		1200
Mizoram		

[11 August, 2014]

Written Answers to

Sl. No.

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Kolodyne St-II/Central

Nagaland

Sub-Total NER

TOTAL ALL INDIA

Dikhu

Unstarred Questions

460

186

19948

26080

217