

## 6. HEALTH INFRASTRUCTURE

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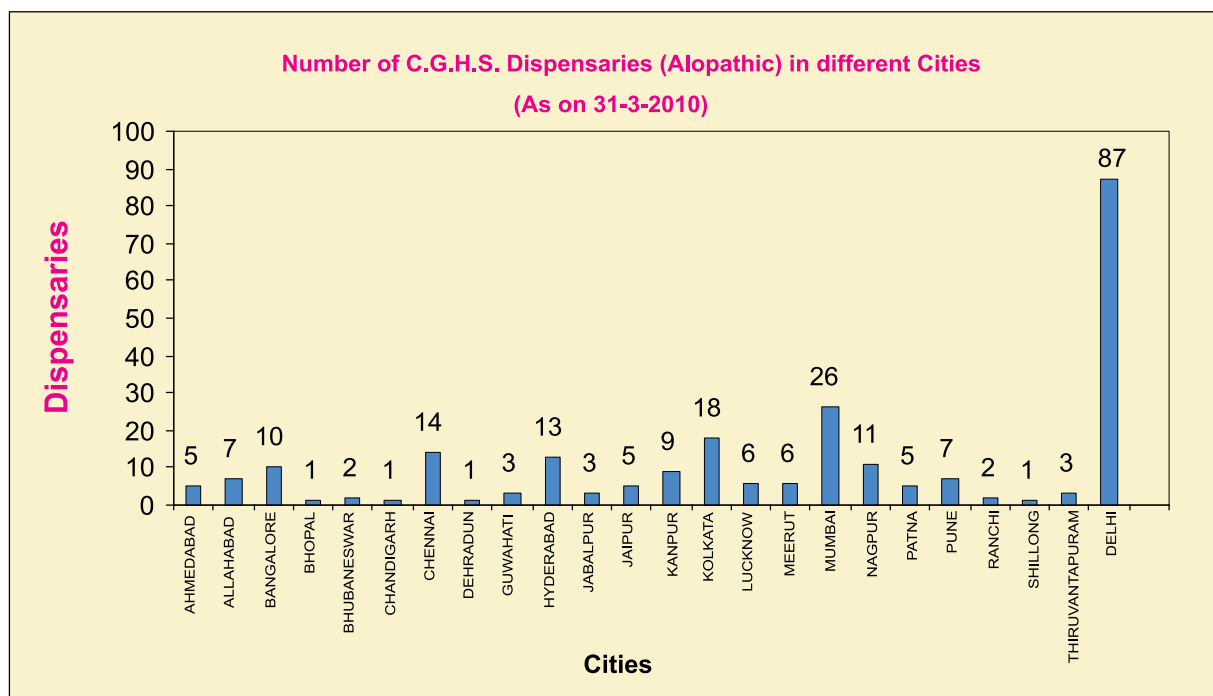
## 6. Health Infrastructure

Health Infrastructure is an important indicator to understand the healthcare delivery provisions and mechanisms in a country. It also signifies the investments and priority accorded to creating the infrastructure in public and private sectors.

This section on Health Infrastructure indicators is subdivided into two categories viz. educational infrastructure and service infrastructure. **Educational infrastructure** provides details of medical colleges, students admitted to M.B.B.S. course, post graduate degree/diploma in medical and dental colleges, admissions to BDS & MDS courses, AYUSH institutes, nursing courses and para-medical courses. **Service infrastructure** in health include details of allopathic hospitals, hospital beds, Indian System of Medicine & Homeopathy hospitals, sub centers, PHC, CHC, blood banks, mental hospitals and cancer hospitals.

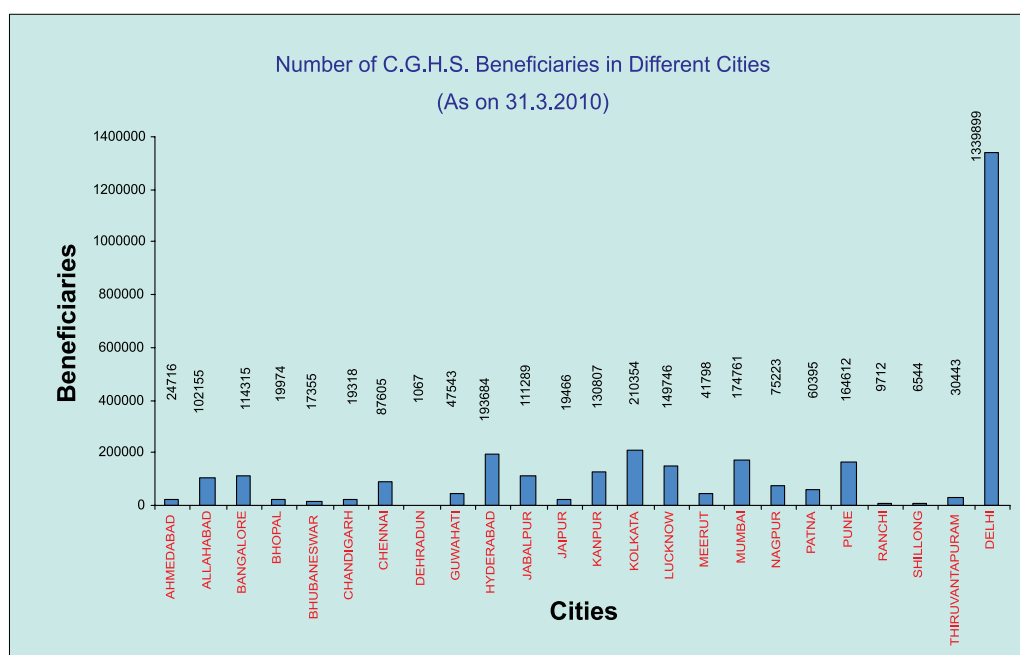
- Medical education infrastructures in the country have shown rapid growth during the last 20 years. The country has 314 medical colleges, 289 Colleges for BDS courses and 140 colleges conduct MDS courses with total admission of 29,263 (in 256 Medical Colleges), 21,547 and 2,783 respectively during 2010-11.
- There are 2,028 Institutions for General Nurse Midwives with admission capacity of 80,332 and 608 colleges for Pharmacy (diploma) with an intake capacity of 36,115 as on 31st March, 2010.
- There are 12,760 hospitals having 5,76,793 beds in the country. 6,795 hospitals are in rural area with 1,49,690 beds and 3,748 hospitals are in Urban area with 3,99,195 beds. Rural and Urban bifurcation is not available in the States of Bihar and Jharkhand.
- Medical care facilities under AYUSH by management status i.e. dispensaries & hospitals are 24,465 & 3,408 respectively as on 1.4.2010.
- There are 1,45,894 Sub Centers, 23,391 Primary Health Centers and 4,510 Community Health Centers in India as on March 2009 (Latest).
- Total No. of licensed Blood Banks in the Country as on January 2011 are 2,445.

- ▶ CGHS has health facilities in 24 cities having 246 Allopathy Dispensaries and Total 438 Dispensaries in the Country with 847081 registered cards/ families.



Source: Central Government Health Scheme, Dte. GHS, M/o. HEALTH & F.W., Nirman Bhawan, New Delhi

- ▶ During 2009-10 the city wise no. of CGHS beneficiaries has been analysed and presented in the graph.



**\*No. of Beneficiaries from Jammu has not received.**

Source: Central Government Health Scheme, Dte. GHS, M/o. HEALTH & F.W., Nirman Bhawan, New Delhi

## 6.1 Education Infrastructure

### 6.1.1 Number of Medical Colleges & Students Admitted to the 1st Year M.B.B.S. in India 1991-92 to 2010-11

S.No.	Year	No. of Medical Colleges	Admission		
			Male	Female	Total
	1	2	3	4	5
1	1991-92	146	7468	4731	12199
2	1995-96	165	4416	2623	7039
3	1999-00*	147	NR	NR	10104
4	2000-01	189	NR	NR	18168
5	2004-05	229	NR	NR	24690
6	2005-06	242	NR	NR	26449
7	2006-07	262	14449	10609	28928
8	2007-08	266	18208	12082	30290
9	2008-09	289	18486	14329	32815
10	2009-10	300	18224	15860	34595
11	2010-11	314***	14299	14964	29263

Notes:

\* Data not received from 89 colleges in 1999- 2000

\*\* The data for the years 2001-02, 2002-03 & 2003-04 not provided by the source agency.

■ N.R: Not Received.

\*\*\* Out of 314 Medical Colleges, data not received from 58 Medical Colleges.

Source: Medical Council of India

### 6.1.2 Number of Dental Colleges & Admissions to BDS and MDS Courses in India 1995-96 to 2010-11

S.No.	Year	BDS		MDS
		No. of Dental Colleges	No. of Admission	No. of Admission
	1	2	3	6
1	1995-96	94	2562	263
2	1999-00	121	7100	801
3	2000-01	135	8340	859
4	2001-02	149	9550	922
5	2002-03	164	10970	992
6	2003-04	181	12960	1106
7	2004-05	185	13400	1173
8	2005-06	205	15440	1298
9	2006-07	238	18120	1764
10	2007-08	267	20910	2069
11	2008-09	282	22650	2365
12	2009-10	290	23520	2644
	2010-11	289	21547	2783

Note:

\* BDS = Bachelor of Dental Surgery

■ MDS = Master of Dental Surgery

Source : Dental Council of India

### 6.1.3 State/UT wise Number of Undergraduate Ayush Institutes & their Admission Capacity in India as on 1.4.2009

S. No.	State/UT	Ayurveda		Unani		Siddha		Naturopathy		Homoeopathy		Total	
		No. of	Adm.	No. of	Adm.	No. of	Adm.	No. of	Adm.	No. of	Adm.	No. of	Adm.
		Colleges	Capacity	Colleges	Capacity	Colleges	Capacity	Colleges	Capacity	Colleges	Capacity	Colleges	Capacity
1	2	7	360	2	138	NA	NA	1	30	5	248	15	776
1	Andhra Pradesh	NA	NA	NA	NA	NA	NA	NA	NA	1	50	1	50
2	Arunachal Pradesh	1	62	NA	NA	NA	NA	NA	NA	3	150	4	212
3	Assam	8	358	4	180	NA	NA	NA	NA	15	917	27	1455
4	Bihar	3	187	1	40	NA	NA	1	40	3	200	8	467
5	Chhattisgarh	1	46	2	92	NA	NA	NA	NA	2	154	5	292
6	Delhi	1	40	NA	NA	NA	NA	NA	NA	1	50	2	90
7	Goa	12	530	NA	NA	NA	NA	1	50	16	1645	29	2225
8	Gujarat	6	195	NA	NA	NA	NA	NA	NA	1	50	7	245
9	Haryana	1	60	NA	NA	NA	NA	NA	NA	1	100	2	160
10	Himachal Pradesh	1	105	1	40	NA	NA	NA	NA	NA	NA	2	145
11	Jammu & Kashmir	1	50	NA	NA	NA	NA	NA	NA	2	100	3	150
12	Jharkhand	58	2983	5	198	NA	NA	3	110	11	909	77	4200
13	Karnataka	16	896	NA	NA	1	50	NA	NA	5	286	22	1232
14	Kerala	17	793	4	180	NA	NA	NA	NA	20	1791	41	2764
15	Madhya Pradesh	63	3814	5	262	NA	NA	NA	NA	49	4409	117	8485
16	Maharashtra	6	205	NA	NA	NA	NA	NA	NA	6	213	12	418
17	Orissa	12	598	NA	NA	NA	NA	NA	NA	4	345	16	943
18	Punjab	7	438	2	90	NA	NA	NA	NA	7	546	16	1074
19	Rajasthan	5	210	1	40	7	426	4	155	10	780	27	1611
20	Tamil Nadu	15	695	11	517	NA	NA	NA	NA	9	532	35	1744
21	Uttar Pradesh	4	234	NA	NA	NA	NA	NA	NA	1	50	5	284
22	Uttarakhand	3	116	1	40	NA	NA	NA	NA	13	778	17	934
23	West Bengal	1	50	NA	NA	NA	NA	NA	NA	1	80	2	130
24	Chandigarh	249	13025	39	1817	8	476	10	385	186	14383	492	30086
<b>TOTAL</b>		<b>249</b>	<b>13025</b>	<b>39</b>	<b>1817</b>	<b>8</b>	<b>476</b>	<b>10</b>	<b>385</b>	<b>186</b>	<b>14383</b>	<b>492</b>	<b>30086</b>

Source: Central Council of Indian Medicine /Homeopathy/Deptt. of AYUSH

### 6.1.4 Number of Institutions and Admission Capacity/Number Admitted in Nursing/Para Medical Courses in India as on 31st March 2010

S.No.	Description of the courses	No. of Institutions	Admissions capacity / no. Admitted
	1	2	3
1	General Nurse Midwives <sup>1</sup>	2028	80332
2	Aux. Nurse Midwives <sup>1</sup>	676	15335
3	Pharmacy (diploma) <sup>2</sup>	608	36115

Notes:

<sup>1</sup> Reference period 31-3-2010

<sup>2</sup> Reference period upto December - 2010

Source: Indian Nursing Council, Pharmacy Council of India.

## 6.2 Service Infrastructure

### 6.2.1 State/UT wise Number of Sub Centres, PHCs & CHCs Functioning in India as on March 2009 (Latest)

S.No.	States/UT	Sub Centres	PHCs	CHCs
1	2	3	4	
	<b>India</b>	<b>145894</b>	<b>23391</b>	<b>4510</b>
1	Andhra Pradesh	12522	1570	167
2	Arunachal Pradesh	592	116	44
3	Assam	4592	844	108
4	Bihar	8858	1776	70
5	Chhattisgarh	4776	715	144
6	Goa	171	19	5
7	Gujarat	7274	1084	281
8	Haryana	2465	437	93
9	Himachal Pradesh	2071	449	73
10	Jammu & Kashmir	1907	375	85
11	Jharkhand	3947	321	194
12	Karnataka	8143	2193	324
13	Kerala	4575	697	226
14	Madhya Pradesh	8869	1155	333
15	Maharashtra	10579	1816	376
16	Manipur	420	72	16
17	Meghalaya	401	105	28
18	Mizoram	370	57	9
19	Nagaland	397	123	21
20	Orissa	6688	1279	231
21	Punjab	2950	394	129
22	Rajasthan	10951	1503	367
23	Sikkim	147	24	0
24	Tamil Nadu	8706	1277	256
25	Tripura	579	76	11
26	Uttarakhand	1765	239	55
27	Uttar Pradesh	20521	3690	515
28	West Bengal	10356	922	334
29	A & N Islands	114	19	4
30	Chandigarh	16	0	2
31	D & N Haveli	38	6	1
32	Daman & Diu	26	2	2
33	Delhi	41	8	0
34	Lakshadweep	14	4	3
35	Puducherry	53	24	3

Source: Bulletin on Rural Health Statistics in India 2009. Infrastructure Division MOHFW/GOI

## 6.2.2 State/UT wise Number of Govt. Hospitals & Beds in Rural & Urban Areas (Including CHCs) In India (Provisional)

S. No.	State/UT/Division	Rural Hospitals (Govt.)		Urban Hospitals (Govt.)		Total Hospitals (Govt.)		Projected Population as on reference period(In thousand)	Average Population Served Per Govt. Hospital	Average Population Served Per Govt. Hospital Bed	Reference Period
		No.	Beds	No.	Beds	No.	Beds				
	1	2	3	4	5	6	7	8	9	10	11
	<b>India</b>	<b>6795</b>	<b>149690</b>	<b>3748</b>	<b>399195</b>	<b>12760</b>	<b>576793</b>	<b>1160804</b>	<b>90972</b>	<b>2012</b>	
1	Andhra Pradesh	143	3725	332	34325	475	38050	83964	176766	2207	01.01.2011
2	Arunachal Pradesh	146	1356	15	862	161	2218	1184	5920	533	01.01.2009
3	Assam	108	3240	45	4382	153	7622	29814	19486	3911	01.01.2010
4	Bihar	NR	NR	NR	NR	1717	22494	93633	54533	4163	01.09.2008
5	Chattisgarh	119	3270	99	6158	218	9428	22934	105202	2433	01.01.2008
6	Goa	7	298	13	2388	20	2686	1714	85700	638	01.01.2011
7	Gujarat	282	9619	91	19339	373	28958	57434	153979	1983	01.01.2010
8	Haryana	61	1212	93	6667	154	7879	24597	159721	3122	01.01.2010
9	Himachal Pradesh	95	2646	47	5315	142	7961	6662	4692	837	01.01.2010
10	Jammu & Kashmir	61	1820	31	2125	92	3945	11099	120641	2813	01.01.2008
11	Jharkhand	NR	NR	NR	NR	500	5414	29745	59490	5494	01.01.2008
12	Karnataka	468	8010	451	55731	919	63741	58181	63309	913	01.01.2010
13	Kerala	281	13756	105	17529	386	31285	34063	88246	1089	01.01.2010
14	Madhya Pradesh	333	10040	124	18493	457	28533	71050	155470	2490	01.01.2011
15	Maharashtra	735	13376	1037	36627	1772	50003	111118	62708	2222	01.01.2011
16	Manipur	27	744	4	1574	31	2318	2421	78097	1044	01.01.2011
17	Meghalaya	29	870	10	1967	39	2837	2591	66436	913	01.01.2011
18	Mizoram	21	801	4	710	25	1511	981	39240	649	01.01.2010
19	Nagaland	23	705	25	1445	48	2150	2197	45771	1022	01.01.2010
20	Orissa	1629	10172	80	5708	1709	15880	40389	23633	2543	01.01.2011
21	Punjab	72	2180	159	8440	231	10620	26391	114247	2485	01.01.2008
22	Rajasthan	347	11850	128	20217	475	32067	63408	133491	1977	01.01.2008
23	Sikkim	30	730	3	830	33	1560	605	18333	388	01.01.2011
24	Tamil Nadu	533	25078	48	22120	581	47198	65629	112959	1391	01.01.2008
25	Tripura	14	950	18	2082	32	3032	3574	111687	1179	01.01.2011
26	Uttar Pradesh	515	15450	346	40934	861	56384	197271	229118	3499	01.01.2011
27	Uttarakhand	666	3746	29	4219	695	7965	9511	13685	1194	01.01.2009
28	West Bengal	14	2399	280	52360	294	54759	87839	298772	1604	01.01.2010
29	A&N Island	7	385	1	450	8	835	480	60000	575	01.01.2011
30	Chandigarh	1	50	3	570	4	620	1368	342000	2206	01.01.2011
31	D&N Haveli	1	50	1	231	2	281	337	168500	1199	01.01.2011
32	Daman & Diu	0	0	4	200	4	200	259	64750	1295	01.01.2011
33	Delhi	21	972	109	22886	130	23858	16955	130423	711	01.01.2009
34	Lakshadweep	5	160	—	—	5	160	75	15000	469	01.01.2011
35	Puducherry	1	30	13	2311	14	2341	1331	95071	569	01.01.2011

Notes:

- Government hospitals includes central government, state government and local govt. Bodies
- Rural & Urban bifercation is not available in Bihar & Jharkhand.

Source: Directorate General of State Health Services

### 6.2.3 Medical Care Facilities under AYUSH by Management Status as on 1.4.2010 (Provisional)

S. No.	Management	Ayurveda		Unani		Siddha		Yoga		Naturopathy		Homoeopathy		Amchi		Total	
		Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>A. Under jurisdiction of States/Union Territories</b>																	
1	State/Govt./UT Administration	2233	13897	232	1072	268	525	4	29	9	70	96	5445	0	5	2842	21043
2	Local Bodies	20	886	0	45	0	0	0	0	0	8	0	1084	0	0	20	2023
3	Others	181	346	26	8	4	0	5	53	143	176	144	201	2	129	505	907
<b>Total (A)</b>		<b>2434</b>	<b>15129</b>	<b>258</b>	<b>1125</b>	<b>272</b>	<b>525</b>	<b>9</b>	<b>82</b>	<b>152</b>	<b>254</b>	<b>240</b>	<b>6730</b>	<b>2</b>	<b>134</b>	<b>3367</b>	<b>23973</b>
<b>B. CGHS &amp; Central Government organizations</b>																	
4	C.G.H.S.	1	33	0	10	0	3	0	4	0	0	0	35	0	0	1	85
5	Railway ministry	0	40	0	0	0	0	0	0	0	0	0	129	0	0	0	169
6	Labour Ministry :	0	130	0	0	0	5	0	0	0	0	0	32	0	0	0	167
7	Ministry of col	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
8	Research Councils	22	4	7	10	2	2	0	0	0	5	3	29	0	1	34	51
9	National Institutes	3	1	1	0	1	0	0	0	0	1	1	2	0	0	6	4
<b>TOTAL</b>		<b>26</b>	<b>224</b>	<b>8</b>	<b>20</b>	<b>3</b>	<b>10</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>4</b>	<b>227</b>	<b>0</b>	<b>1</b>	<b>41</b>	<b>492</b>
<b>All India (A+B)</b>		<b>2460</b>	<b>15353</b>	<b>266</b>	<b>1145</b>	<b>275</b>	<b>535</b>	<b>9</b>	<b>86</b>	<b>152</b>	<b>260</b>	<b>244</b>	<b>6957</b>	<b>2</b>	<b>135</b>	<b>3408</b>	<b>24465</b>

Note :- Figures are Provisional

Source: D/o. AYUSH, Ministry of Health & Family Welfare.



### 6.2.4 State/UT wise Number of Licensed Blood Banks in India till January 2011

S.No.	State/ UT	No. of Blood Banks
1	1	2
2	Andhra Pradesh	286
3	Arunachal Pradesh	13
4	Assam	62
5	Bihar	66
6	Chattisgarh	38
7	Goa	5
8	Gujarat	151
9	Haryana	67
10	Himachal Pradesh	11
11	Jammu & Kashmir	26
12	Jharkhand	41
13	Karnataka	170
14	Kerala	165
15	Madhya Pradesh	129
16	Maharashtra	287
17	Manipur	3
18	Meghalaya	6
19	Mizoram	10
20	Nagaland	4
21	Orissa	82
22	Punjab	90
23	Rajasthan	85
24	Sikkim	3
25	Tamilnadu	263
26	Tripura	7
27	Uttar Pradesh	168
28	Uttarakhand	24
29	West Bengal	111
30	Andaman & Nicobar	2
31	Chandigarh	4
32	Dadra & Nagar Haveli	1
33	Daman & Diu	1
34	Delhi	49
35	Lakshadweep	0
34	Puducherry	15
35	Total	2445

Source: Drug Controller General (I), DGHS, MOHFW (DRUG SECTION)

## 6.2.5 State/UT wise Number of Mental Hospitals and their Manpower Resources in India July 2002 (Latest)

S.No.	State	Existing		Manpower resources (X)													Dist.Wise distribution of Psychiatric facilities
					Psychiatrists			Clinical Psychologists			physical Social workers			Psychiatric nurses			
		Govt. Sector	Pvt. Sector	Available	Ideal. Req	Deficit	Available	Ideal. Req	Deficit	Available	Ideal. Req	Deficit	Available	Ideal. Req	Deficit		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	A & N islands	10	-	1	4	3	-	6	6	-	8	8	-	3	3	1	1
2	Andhra Pradesh	1020	210	180	757	577	8	865	857	3	1154	1151	Nil	123	123	NA	NA
3	Arunachal Pradesh	10	-	1	10	9	-	15	15	-	20	20	-	1	1	1	12
4	Assam	500	-	29	266	237	5	450	445	1	564	563	1	50	49	23	17
5	Bihar	-	-	28	828	800	13	1214	1201	NA	1656	**	NA	**	**	NA	NA
6	Chandigarh	57	-	31	9	22	14	14	-	10	18	8	1	6	5	1	-
7	Chhattishgarh	10	3	15	207	192	1	304	303	2	414	412	-	2	2	1	15
8	Daman & Diu, D & N Haveli	10	-	1	4	3	-	6	6	1	8	7	4	1	3	1	3
10	Delhi	329	113	155	137	18	43	207	164	13	274	261	172**	32	140	7	7
11	Goa	210	-	26	14	12	2	21	19	3	28	25	2	21	19	2	-
12	Gujarat	853	326	97	505	408	12	753	741	12	1010	998	-	118	118	20	5
13	Haryana	89	98	39	210	171	2	315	313	-	420	420	1	19	18	9	10
14	Himachal Pradesh	14	3	8	61	53	2	90	88	-	122	122	-	6	6	3	9
15	Jharkhand	1173	145	50	270	220	15	405	390	10	540	530	NA	135	**	3	15
16	Jammu & Kashmir	120	-	4	100	96	1	150	149	1	200	199	-	12	12	2	12
17	Karnataka	1341	1113	198	527	329	69	762	693	56	1052	996	175	245	70	18	9
18	Kerala	1937	1539	238	318	80	42	477	435	40	636	596	14	348	334	13	-
19	Lakshdweep	-	-	-	1	1	-	2	2	-	4	4	-	1	1	-	-
20	Madhya Pradesh	592	NA	12	603	591	-	905	905	-	1206	1206	1	60	59	6	39
21	Maharashtra	6073	652	486	967	481	33	484	451	44	1934	1890	117	672	555	17	18
22	Manipur	10	-	6	24	18	1	36	35	2	48	46	-	1	1	2	6
23	Meghalaya	70	-	5	23	18	-	35	35	-	46	46	2	7	5	1	6
24	Mizoram	14	-	4	9	5	1	13	12	1	18	17	2	2	-	2	6
25	Nagaland	25	-	5	20	15	-	30	30	-	40	40	1	3	2	3	5
26	Orrisa	118	-	19	367	348	5	550	545	1	734	733	-	11	11	4	26
27	Puducherry	44	20	15	10	5	1	5	14	13	20	7	20	7	13	4	-
28	Punjab	580	267	89	242	153	18	363	345	21	484	463	10	85	75	11	6
29	Rajsthan	627	110	75	565	490	12	798	786	4	1130	1126	-	74	74	16	16
30	Sikkim	20	12	2	5	3	-	7	7	-	10	10	-	3	3	2	2
31	Tamil Nadu	1800	NA	262	621	359	7	910	903	21	1242	1221	-	180	180	30	-
32	Tripura	16	-	9	31	22	-	45	45	-	62	62	-	2	2	1	3
33	Uttarakhand	-	-	6	84	78	-	126	126	-	168	168	-	-	-	1	12
34	Uttat pradesh	1750	275	115	1660	1545	20	2490	2470	35	3320	3285	-	202	202	10	60
35	West Bengal	1471	210	83	802	719	28	1204	1176	-	1604	1604	4400*	1604	4258	20	-
Total		20893	5096	2294	10261	8081	355	14057	13712	294	20194	18244	4923	4036	**	235	320

### Notes

\* Figures unreliable: Nurses with some psychiatric training but without a Diploma in Psychiatric Nursing (DPN) appear to have been included.

\*\* Figures unreliable

(x): while the exact requirements of mental health personnel have not been definitively prescribed, the ideal required number of mental health professionals has been calculated as under:

Psychiatrists: 1.0 per 100,000 population psychiatric Clinical Psychologists: 1.5 per 100,000 Population

Psychiatric Social Workers: 2.0 per 100,000 population Psychiatric Nurses: 1.0 per 10 psychiatric beds

\$ District-wise data in respect of psychiatric facilities are not available for the states of Andhra Pradesh (total districts-23) and Bihar (total districts-40).

Total number of psychiatrists trained in the country during 2000-2001

Qualification	Male	Female	Total
MD	36	9	45
DPM	15	6	21
Grand Total			66

Source: National Survey of Mental Health Resources carried out by the Directorate General of Health Services, Ministry of Health and Family Welfare, Government of India, during May and July 2002. And published in Mental Health An Indian Perspective 1946-2003 DteGHS/MOHFW/GOI

## 6.2.6 NUMBER OF C.G.H.S. DISPENSARIES IN DIFFERENT CITIES AS ON 31.3.2010

S. No.	Name of City	Type Of Dispensaries		Poly Clinic	CGHS Lab	Dental Units
		Allopathy	Ayush			
1	2	3	4	5	6	7
1	AHMEDABAD	5	2	1	1	1
2	ALLAHABAD	7	2	1	1	0
3	BANGALORE	10	4	1	3	1
4	BHOPAL	1	0	0	0	0
5	BHUBANESWAR	2	1	0	1	0
6	CHANDIGARH	1	0	0	0	0
7	CHENNAI	14	4	2	4	1
8	DEHRADUN	1	0	0	0	0
9	GUWAHATI	3	1	0	0	0
10	HYDERABAD	13	6	2	1	2
11	JABALPUR	3	0	0	1	0
12	JAIPUR	5	2	1	3	1
13	KANPUR	9	3	1	3	1
14	KOLKATA	18	4	1	5	1
15	LUCKNOW	6	3	1	3	0
16	MEERUT	6	2	2	1	0
17	MUMBAI	26	5	2	4	3
18	NAGPUR	11	3	1	1	1
19	PATNA	5	2	1	1	1
20	PUNE	7	3	1	2	1
21	RANCHI	2	0	0	1	0
22	SHILLONG	1	0	0	0	0
23	THIRUVANTAPURAM	3	2	0	0	0
24	DELHI	87	36	4	31	6
<b>TOTAL</b>		<b>246</b>	<b>85</b>	<b>22</b>	<b>67</b>	<b>20</b>

Note: This table shows only the number of dispensaries in different cities. For exact address of the dispensaries please contact the source agency

Source: Central Government Health Scheme, Dte. GHS, M/o. HEALTH & F.W., Nirman Bhawan, New Delhi

### 6.2.7 Number of Cards and Beneficiaries Availing C.G.H.S. Facilities In Various Cities as on 31st March, 2010

S. No.	Name of City	Total No. of Cards	Total No. of Beneficiaries
1	2	3	4
1	AHMEDABAD	7579	24716
2	ALLAHABAD	22947	102155
3	BANGALORE	36790	114315
4	BHOPAL	5005	19974
5	BHUBANESWAR	3522	17355
6	CHANDIGARH	6929	19318
7	CHENNAI	32424	87605
8	DEHRADUN	429	1067
9	GUWAHATI	12835	47543
10	HYDERABAD	56040	193684
11	JABALPUR	29895	111289
12	JAIPUR	8597	19466
13	KANPUR	28916	130807
14	KOLKATA	69463	210354
15	LUCKNOW	31620	149746
16	MEERUT	12235	41798
17	MUMBAI	49089	174761
18	NAGPUR	22029	75223
19	PATNA	16405	60395
20	PUNE	51964	164612
21	RANCHI	2909	9712
22	SHILLONG	1857	6544
23	THIRUVANTAPURAM	10459	30443
24	DELHI	327143	1339899
<b>TOTAL</b>		<b>847081</b>	<b>3152781</b>

**Note- Delhi figures are as on 31-03-2009**

Source: Central Government Health Scheme, Dte. GHS, M/o. HEALTH & F.W., Nirman Bhawan, New Delhi

## 6.2.8 Statewise/ Systemwise Number of AYUSH Hospitals and Dispensaries in India as on 1.4.2010 (Provisional)

S. No.	States/UTs & others	Ayurveda		Unani		Siddha		Yoga		Naturopathy		Homoeopathy		Amchi		Total	
		Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>A. States/Union Territories</b>																	
1	Andhra Pradesh*	8	1003	6	269	0	0	0	225	31	312	6	518	0	1	51	2327
2	Arunachal Pradesh	11	2	0	0	0	0	1	1	0	2	1	55	0	6	13	60
3	Assam*	1	380	0	1	0	0	1	25	4	7	3	75	0	0	9	488
4	Bihar*	11	311	4	144	0	0	1	0	2	0	11	179	0	0	29	634
5	Chhattisgarh	9	1272	1	26	0	0	0	15	2	5	3	172	0	1	15	1490
6	Delhi	17	158	3	30	0	0	2	4	5	5	2	127	0	3	29	324
7	Goa#	1	11	0	0	0	0	0	0	1	4	1	5	0	0	3	20
8	Gujarat	51	542	0	0	0	0	0	5	3	14	16	216	0	1	70	777
9	Haryana*	8	493	1	7	0	0	0	0	8	4	1	22	0	0	18	526
10	Himachal Pradesh	27	1105	0	3	0	0	0	0	2	0	1	14	2	14	32	1122
11	Jammu & Kashmir*	2	273	2	235	0	0	0	0	1	0	0	0	0	82	5	508
12	Jharkhand*	1	122	0	30	0	0	0	0	1	0	2	54	0	0	4	206
13	Karnataka	133	561	14	50	0	0	4	0	36	45	21	43	0	7	208	699
14	Kerala	126	898	0	12	2	5	0	5	46	40	32	526	0	0	206	1486
15	Madhya Pradesh	28	1427	2	50	0	0	0	4	8	13	20	146	0	0	58	1640
16	Maharashtra*	55	469	5	25	0	0	2	0	12	10	45	0	0	3	119	504
17	Manipur	0	30	1	13	0	0	0	12	12	12	4	178	0	0	17	245
18	Meghalaya	4	14	0	0	0	0	0	1	0	0	7	35	0	1	11	50
19	Mizoram	7	2	0	0	0	0	0	0	1	0	7	11	0	0	15	13
20	Nagaland#	0	109	0	0	0	0	0	0	0	1	2	93	0	0	2	203
21	Orissa	8	624	0	9	0	0	0	5	2	45	6	637	0	2	16	1320
22	Punjab	15	507	0	35	0	0	0	1	1	5	5	107	0	0	21	655
23	Rajasthan	113	3568	5	110	0	0	1	0	9	13	11	180	0	0	139	3871
24	Sikkim*	1	1	0	0	0	0	0	0	0	0	0	1	0	3	1	2
25	Tamil Nadu*	8	43	1	21	270	497	0	21	59	51	9	46	0	1	347	679
26	Tripura*	1	54	0	0	0	0	0	0	3	0	1	80	0	0	5	134
27	Uttar Pradesh	1774	340	210	49	0	0	0	5	10	5	8	1575	0	1	2002	1974
28	Uttarakhand*	7	467	2	3	0	0	1	3	6	3	1	60	0	3	17	536
29	West Bengal*	4	295	1	3	0	0	0	0	4	5	12	1534	0	5	21	1837
30	A&N Islands	1	8	0	0	0	0	0	1	0	0	1	17	0	0	2	26
31	Chandigarh	1	8	0	0	0	0	0	0	0	0	1	7	0	0	2	15
32	D&N Haveli*	0	3	0	0	0	0	0	0	0	0	0	1	0	0	0	4
33	Daman & Diu	0	6	0	0	0	0	0	0	0	0	0	5	0	0	0	11
34	Lakshadweep*	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	3
35	Puducherry	1	21	0	0	0	23	0	2	0	3	0	10	0	0	1	59
	<b>TOTAL (A)</b>	<b>2434</b>	<b>15129</b>	<b>258</b>	<b>1125</b>	<b>272</b>	<b>525</b>	<b>13</b>	<b>335</b>	<b>269</b>	<b>604</b>	<b>240</b>	<b>6730</b>	<b>2</b>	<b>134</b>	<b>3488</b>	<b>24448</b>
	<b>B. CGHS &amp; Central Government organization</b>	<b>26</b>	<b>224</b>	<b>8</b>	<b>20</b>	<b>3</b>	<b>10</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>4</b>	<b>227</b>	<b>0</b>	<b>1</b>	<b>41</b>	<b>495</b>
	<b>TOTAL (A+B)</b>	<b>2460</b>	<b>15353</b>	<b>266</b>	<b>1145</b>	<b>275</b>	<b>535</b>	<b>13</b>	<b>339</b>	<b>269</b>	<b>610</b>	<b>244</b>	<b>6957</b>	<b>2</b>	<b>135</b>	<b>3529</b>	<b>24943</b>

Note :-Figures are Provisional

\* = Figures for the current year has not been received hence repeated for the latest available year.

# = Under clarification (UC)

Source: D/o. AYUSH, Ministry of Health & Family Welfare.

### 6.2.9 State/UT wise Number of Eye Banks in India as on 31st December 2010

S. No.	State/ UT	Eye Banks(No,s)
1	2	
1	Andhra Pradesh	96
2	Arunachal Pradesh	0
3	Assam	4
4	Bihar	7
5	Chattisgarh	3
6	Goa	2
7	Gujarat	42
8	Haryana	16
9	Himachal Pradesh	1
10	Jammu & Kashmir	2
11	Jharkhand	3
12	Karnataka	47
13	Kerala	19
14	Madhya Pradesh	31
15	Maharashtra	94
16	Manipur	0
17	Meghalaya	0
18	Mizoram	0
19	Nagaland	0
20	Orissa	12
21	Punjab	25
22	Rajasthan	23
23	Sikkim	0
24	Tamilnadu	50
25	Tripura	2
26	Uttar Pradesh	44
27	Uttarakhand	1
28	West Bengal	34
29	Andaman & Nicobar	0
30	Chandigarh	7
31	Dadra & Nagar Haveli	0
32	Daman & Diu	0
33	Delhi	16
34	Lakshadweep	0
35	Puducherry	5
<b>Total</b>		<b>586</b>

Source: DDG (Ophth), DGHS, MOHFW (Ophthalmology Section)

### 6.3 Vaccinewise and Institution-wise status of production, demand and supply 2009-10

#### 1. BCG

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodtn.	Demand	supply	Prodtn.	Demand	supply	% Achieved	
1	BCG VL Channai	800	0.00	0.00	0.00	0.00	0.00	0.00	0	Mar-10
2	SII Pune	1200	1888.26	-	-	1824.23	-	-	-	Mar-10
<b>Total</b>		<b>2000</b>	<b>1888.26</b>	<b>0.00</b>	<b>0.00</b>	<b>1824.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0</b>	

#### 2. DPT - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodtn.	Demand	supply	Prodtn.	Demand	supply	% Achieved	
1	PII Coonoor	400	0.00	0.00	0.00	0.00	0.00	0.00	0	Mar-10
2	CRI Kasauli	300	0.00	160.71	117.79	0.00	0.00	0.00	0.00	Mar-10
3	HBPCL Mumbai	488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Mar-10
4	SII Pune	3000	940.69			317.87				Mar-10
5	HBI Udhagamandalam Hyderabad	650	46.00	2.60	2.60	290.00	273.79	273.79	100.00	Mar-10
6	SBL Hyderabad	3000	0.00	0.40	0.40	134.32	450.00	100.34	22.30	Mar-10
7	Biological -E-Limited	1500	800.00	800.00	216.23	594.93	594.93	594.93	100.00	Mar-10
<b>Total</b>		<b>9338</b>	<b>1786.69</b>	<b>963.71</b>	<b>337.02</b>	<b>1337.12</b>	<b>1318.72</b>	<b>969.06</b>	<b>73.48</b>	

#### 3. DT - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodtn.	Demand	supply	Prodtn.	Demand	supply	% Achieved	
1	PII Coonoor	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0	Mar-10
2	CRI Kasauli	200.00	0.00	52.49	37.49	0.00	0	0	0	Mar-10
3	HBPCL Mumbai	100	0	0.00	0.00	0.00	0.00	0.00	0	Mar-10
4	SII Pune	300.00	42.12			13.54				Mar-10
5	HBI Udhagamandalam Hyderabad	100.00	5.00	1.60	1.60	80.00	73.74	73.74	100.00	Mar-09
6	Biological -E-Limited	300	375	375	20.3	32.50	32.50	32.58	100.25	Mar-10
<b>Total</b>		<b>1150.00</b>	<b>422.12</b>	<b>429.09</b>	<b>59.39</b>	<b>126.04</b>	<b>106.24</b>	<b>106.32</b>	<b>100.08</b>	

### 6.3 (Contd.) Vaccinewise and Institution-wise status of production, demand and supply 2009-10

#### 4. TT - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	PII Coonoor	300	0.00	0.00	0.00	0.00	0.00	0.00	0	Mar-10
2	CRI Kasauli	400	0.00	130.14	130.14	0.00	300.00	0.33	0.11	Mar-10
3	HBPCL Mumbai	712	0.00	0.00	0	0.00	0.00	0.00	0.00	Mar-10
4	SII Pune	7000	1524.86			1026.33				Mar-10
5	KIPM Chennai	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Mar-10
6	PI Shillong	50	0.50	0.049	0.049	0.00	0.006	0.006	100.00	Mar-10
7	Bio Vaccine Hyd'bad	300								
8	Dano Vaccine H'bad	1600	1248.61	1490.00	1214.22	214.30	214.40	214.40	100.00	Mar-10
9	HBI Udhagamandalam Hyderabad	800	130.00	19.34	19.34	400.00	339.70	339.70	100.00	Mar-09
10	Shanta Biotech Ltd. Hyderabad	3000	230.06	704.47	704.47	151.83	124.04	124.04	100.00	Mar-10
11	Biological -E-Limited	4000	3268.00	1380.00	597.85	871.04	871.04	871.04	100.00	Mar-10
<b>Total</b>		<b>18192</b>	<b>6402.03</b>	<b>3723.999</b>	<b>2666.07</b>	<b>2663.50</b>	<b>1849.186</b>	<b>1549.52</b>	<b>83.79</b>	

#### 5. OPV - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	HBPCL Mumbai	6000	250	17.83	12.50	124.90	124.9	114.05	91.31	Mar-10
2	BIBCOL Bulandshahar	6000								
3	Panacea Bio-tech Ltd. Delhi	16000	6571.29	5955.78	5955.78	4711.97	5217.34	5217.34	100.00	Mar-10
4	Bio-Med (P) Ltd. Ghaziabad	80	16.00	12.00	12.00	-	-	-	0.00	
5	Bharat Biotech Internatioanl (L). Hy,bad	7,000	6550	6463	6463.00	260.00	195.54	195.54	100.00	Mar-10
6	Sanofi pasteur India Pvt.Ltd Delhi	-	-	-	-		1.00	1.00	100.00	Dec-08
<b>Total</b>		<b>35080</b>	<b>13387.29</b>	<b>12448.61</b>	<b>12443.28</b>	<b>5096.87</b>	<b>5538.78</b>	<b>5527.93</b>	<b>99.80</b>	

#### 6. Measles - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	SII Pune	3000	2431.66	0	0	1015.26	0	0	0	Mar-10
2	HBI Udhagamandalam Hyderabad	300	30.00	25.00	25.00	50.00	0.00	0.00	0.00	Mar-09
<b>Total</b>		<b>3300</b>	<b>2461.66</b>	<b>25.00</b>	<b>25.00</b>	<b>1065.26</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	



### 6.3 (Contd.) Vaccinewise and Institution-wise status of production, demand and supply 2009-10

#### 7. JEV - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	CRI Kasauli	11.1	0	0.00	0.00	0	0	0	0.00	Mar-10
2	Bharat Biotechnics Pvt. Ltd Hy'bad	300				0	0	0	0.00	Mar-10
<b>Total</b>		<b>311.1</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	

#### 8. YFV - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	CRI Kasauli (indigenous)	0.55	0	0	0	0.00	0.00	0	0.00	Mar-10
2	CRI Kasauli (import)	0.00	1.19	1.06	0.82	1.82	1.07	1.06	99.07	Mar-10
<b>Total</b>		<b>0.55</b>	<b>1.19</b>	<b>1.06</b>	<b>0.82</b>	<b>1.82</b>	<b>1.07</b>	<b>1.06</b>	<b>99.07</b>	

#### 9. TCARV - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	PII Coonoor	2	0.00	0.00	0.00	0.00	0.00	0.00		Mar-10
2	SII Pune	20	5.67			12.10				Mar-10
3	Zydus Cadilla Ahmedabad	24	18.00	18.00	13.50	18.00	18.00	16.11	89.50	Mar-10
4	HBI Udhagamandalam Hyderabad	60	50.00	19.00	19.00	50.00	46.47	46.47	100.00	Mar-09
5	Chirion Behring Vaccine Lab. Ankleshwar Guj	75	46.00	38.48	35.69	40.20	30.00	29.80	99.33	Dec-08
6	Sanofi (Aventis) Pasteur, New Delhi	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	Bharat Bio tech Hy, bad	80	40.00	36.71	36.71	43.60	28.96	28.96	100.00	Mar-10
<b>Total</b>		<b>281</b>	<b>159.67</b>	<b>112.19</b>	<b>104.90</b>	<b>163.9</b>	<b>123.43</b>	<b>121.34</b>	<b>98.31</b>	

#### 10. Typhoid (Vi-Poly) - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	Bio-Med (P) Ltd. Ghaziabad	40	7.10	4.70	4.70					
2	Zydus Aventis Ahmedabad	30	0.00	0.3	0.30	2.50	0.33	0.33	100.00	Mar-10
3	BBI (L). Hy'bad	300	17.50	16.78	16.78	25.00	18.77	18.77	100.00	Mar-10
4	Sanofi Pasteur Delhi	-	-	-	-	-	-	-		
<b>Total</b>		<b>370</b>	<b>24.60</b>	<b>21.78</b>	<b>21.78</b>	<b>27.50</b>	<b>19.10</b>	<b>19.10</b>	<b>100.00</b>	

### 6.3 (Contd.) Vaccinewise and Institution-wise status of production, demand and supply 2009-10

#### 11. Typhoid (AKD) - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	CRI Kasauli	30	0.00	3.25	1.96	0.00	1.42	0.00	0.00	Mar-10
2	Other									
	<b>Total</b>	<b>30</b>	<b>0.00</b>	<b>3.25</b>	<b>1.96</b>	<b>0.00</b>	<b>1.42</b>	<b>0.00</b>	<b>0.00</b>	

#### 12. Hepatitis-B - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	SII Pune	1000	577.3			234.97			0.00	Mar-10
2	Panacea Bio-tech Ltd. New Delhi-multidose presentation	540	0.00	0.12	0.12	0	0	0	0.00	Mar-10
3	Panacea Bio-tech Ltd. New Delhi-single dose presentation	120	8.86	17.01	15.01	0	0	0	0.00	Mar-10
4	BBI (L), Hy'bad,	1000	150	161.66	161.66	125.00	124.97	124.97	100.00	Mar-10
5	HBI Udhagamandalam Hyderabad	200	40.00	12.93	12.93	40.00	23.83	23.83	100.00	Mar-09
6	Shanta bio technic Pvt. Ltd. Hy,bad	2000	127.16	192.58	192.58	290.3	170.39	170.39	100.00	Mar-10
7	Biological-E-Ltd.	500	4.39	80.42	80.42	17.39	17.39	17.39	100.00	Mar-10
	<b>Total</b>	<b>5360</b>	<b>907.71</b>	<b>464.72</b>	<b>462.72</b>	<b>707.66</b>	<b>336.58</b>	<b>336.58</b>	<b>100.00</b>	

#### 13. Quaderivalent Meningococcal Minigitis Vaccine (QMMV) - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	Bio-Med (P) Ltd. Ghaziabad	15.00	0.45	0.20	0.20	0.00	0.00	0.00	0.00	Mar-09
	<b>Total</b>	<b>15</b>	<b>0.45</b>	<b>0.20</b>	<b>0.20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	

#### 14. Haemophilis (Hib) Influenzae vaccine - Installed Capacity, Production Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	Bio-Med (P) Ltd. Ghaziabad	40	3.00	1.50	1.50				0.00	
2	Sanofi pasteur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Dec. 08
3	Panacae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Dec. 08
4	Shanta Biotech. Ltd. H'bad	1000	0.72	1.83	1.83	1.99	1.03	1.03	100.00	Mar-10
5	Sill Pune	1000	47.13			7.92			0.00	Mar-10
	<b>Total</b>	<b>2040</b>	<b>50.85</b>	<b>3.33</b>	<b>3.33</b>	<b>9.91</b>	<b>1.03</b>	<b>1.03</b>	<b>100</b>	

### 6.3 (Contd.) Vaccinewise and Institution-wise status of production, demand and supply 2009-10

#### 15. Quadruple Vaccine (DTwp- HepB) - Installed Capacity, Production Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	Panacae	540		0.44	0.44	0	0	0		Mar-10
2	Shanta Biotech. Ltd. H'bad	2000	82.13	53.91	53.91	22.87	18.74	18.74	100.00	Mar-10
3	SII Pune	1000	61.46			70.91				Mar-10
<b>Total</b>		<b>3540.00</b>	<b>143.59</b>	<b>54.35</b>	<b>54.35</b>	<b>93.78</b>	<b>18.74</b>	<b>18.74</b>	<b>100.00</b>	

#### 16. Tetravalent Vaccine (DTwp+Hib) - Installed Capacity, Production Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	Panacae	4500	-	2.69	2.69	0.00	0.00	0.00		Mar-10
2	Sanofi pasteur Delhi						2.11	2.11	100.00	Dec-08
3	Shanta Biotech. Ltd. H'bad	3000	1.54	2.14	2.14	2	1.24	1.24	100.00	Mar-10
4	SII Pune	1000				2.31				Mar-10
<b>Total</b>		<b>8500</b>	<b>1.54</b>	<b>4.83</b>	<b>4.83</b>	<b>4.31</b>	<b>3.35</b>	<b>3.35</b>	<b>100</b>	

#### 17. Pentavalent vaccine (DTwp-HepB-Hib)- Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	Panacae		6.19	14.06	14.06	100.00	110.69	75.09	75.09	Mar-10
2	Shanta Biotech. Ltd. H'bad	1000	140.99	83.95	83.95	180.3	300	109.29	36.43	Mar-10
3	SII Pune	1000	2.57			24.76				Mar-10
<b>Total</b>		<b>2000</b>	<b>149.75</b>	<b>98.01</b>	<b>98.01</b>	<b>305.06</b>	<b>410.69</b>	<b>184.38</b>	<b>111.52</b>	

#### 18. MMR - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	HBI Udhagamandalam Hyderabad	0	8.70	0.00	0.00	0.00	0.00	0.00	0	Mar-09
2	SII Pune		238.37	425.62			133.47	0	0.00	Mar-10
<b>Total</b>		<b>0</b>	<b>247.07</b>	<b>425.62</b>	<b>0</b>	<b>0</b>	<b>133.47</b>	<b>0</b>	<b>0</b>	

## 6.3 (Contd.) Vaccinewise and Institution-wise status of production, demand and supply 2009-10

### 19. Seasonal Influenza Vaccine- Installed Capacity, Production , Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	SII Pune	2000	1066.64	-	-	61.91				Mar-10
<b>Total</b>		<b>2000</b>	<b>1066.64</b>	<b>0</b>	<b>0</b>	<b>61.91</b>	<b>0</b>	<b>0</b>	<b>0</b>	

### 20. Rubella

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	SII Pune	2000	48.44	0	0	55.86	0	0	0	Mar-10
<b>Total</b>		<b>2000</b>	<b>48.44</b>	<b>0</b>	<b>0</b>	<b>55.86</b>	<b>0</b>	<b>0</b>	<b>0</b>	

### 21. Seasonal Influenza Vaccine- Installed Capacity, Production , Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	Sanofi pasteur Delhi	0	0	0	0	0	0	0	0.00	Dec-08
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

### 22. ASVS (Snake)- Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	Shantabiotech	45	0	0	0	2.02	0.22	0.22	100.00	Mar-10
<b>Total</b>		<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.02</b>	<b>0.22</b>	<b>0.22</b>	<b>100</b>	

### 23. ATS - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	CRI Kasauli (ml)	0.9	0	0.105	0.105	0.00	0.00	0.00	0.00	Mar-10
2	HBPCL Mumbai	0.9	0	0	0	0	0	0	0	Mar-10
3	SII Pune	0.4							0	
4	Biological E Ltd. Hyd'bad	0.5							0	
5	B.S.& V Ltd.Thane	1.0							0	
6	Biological-E-Ltd	5.0	4.8	0	0	0.75	0.75	0.75	100.00	Mar-10
<b>Total</b>		<b>8.7</b>	<b>4.80</b>	<b>0.105</b>	<b>0.105</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>	<b>100.00</b>	

### 6.3 (Contd.) Vaccinewise and Institution-wise status of production, demand and supply 2009-10

#### 24. ADS - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	CRI Kasauli (Vials)	0.8	0	0.1	0.08	0.10	0.01	0.01	100	Mar-10
2	HBPCL Mumbai	0.9	0.01	0.01	0.01	0.00	0.01	0.01	76.36	Mar-10
3	SII Pune								0	
4	B.S.&V Ltd.Thane	0.5							0	
<b>Total</b>		<b>2.2</b>	<b>0.0084</b>	<b>0.111</b>	<b>0.0904</b>	<b>0.1</b>	<b>0.0169</b>	<b>0.015</b>	<b>88.76</b>	

#### 25. ASVS (Snake)- Installed Capacity, Production, Demand and Supply Quantity in Lakhs of ML

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	CRI Kasauli (ml)	3.00	0.00	0.69	0.69	0.00	0.00	0.00	100.00	Mar-10
2	HBPCL Mumbai	39.30	0.39	0.58	0.60	0.00	0.19	0.00	130.45	Mar-10
3	SII Pune	4.00							0	
4	Biological E Ltd. Hyd'bad	10.00	0	0	0	0	1.51	1.51	100.00	Mar-10
5	KIPM Chennai	7.50	0.00	0.00	0.00				0.00	
6	Bengal Chemical & Pharmaceutical Kolkota	0.60	0.00	0.10	0.00	0.00	0.00	0.00	0.00	Mar-10
7	Vins Bio-Products Ltd. Hy'bad	0.40							0.00	
8	Bharat Serum & Vaccine Ltd. Thane	8.40							0.00	
9	Biological -E- Ltd	2.00							0.00	Dec-08
<b>Total</b>		<b>75.20</b>	<b>0.39</b>	<b>1.37</b>	<b>1.29</b>	<b>0.00</b>	<b>1.70</b>	<b>1.51</b>	<b>89.13</b>	

#### 26. ASVS (Scorpion)- Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10				Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply	% Achieved	
1	HBPCL Mumbai	0.90	0.079	0.11	0.11	0.00	0.05	0.027	54.00	Mar-10
2	Bharat serum & Vaccines Thane	0.05							0	
<b>Total</b>		<b>0.95</b>	<b>0.08</b>	<b>0.11</b>	<b>0.11</b>	<b>0.00</b>	<b>0.05</b>	<b>0.027</b>	<b>54.00</b>	

### 6.3 (Contd.) Vaccinewise and Institution-wise status of production, demand and supply 2009-10

#### 27. ARS (Snake)- Installed Capacity, Production, Demand and Supply Quantity in Lakhs of ML

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10			% Achieved	Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply		
1	CRI Kasauli (ml)	2.50	0.00	1.18	1.18	0.00	0.10	0.00	0.00	Mar-10
2	Bharat Serum & Vaccine Ltd. Thane	3.00							0	Dec-08
3	Cadilla Pharmaceutical Ltd. Ahmedabad	1.00							0	Mar-10
4	Haffkine BPCL Mumbai	0.90	0.00	0.00	0.00	0	0	0	0	Mar-10
5	HBI Udhagamandalam Hyderabad		0.5	0.19	0.19				0	Mar-10
<b>Total</b>		<b>7.40</b>	<b>0.50</b>	<b>1.18</b>	<b>1.37</b>	<b>0.00</b>	<b>0.10</b>	<b>0.00</b>	<b>0.00</b>	

#### 28. AGGS (Scorpion)- Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10			% Achieved	Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply		
1	Bharat Serum & Vaccine Ltd. Thane	4.00	0	0	0	0	0	0	0	Mar,10
2	Other									
<b>Total</b>		<b>4.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Mar,10</b>

#### 29. NHS- Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10			% Achieved	Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply		
1	CRI Kasauli (ml)		0	0.008	0.008	0.00	0.279	0.25	90.39	Mar-10
2	Other							0.00	0.00	
<b>Total</b>		<b>0.00</b>	<b>0.00</b>	<b>0.008</b>	<b>0.008</b>	<b>0.00</b>	<b>0.279</b>	<b>0.25</b>	<b>90.39</b>	

#### 30. Diagnostic Antigen (ML)- Installed Capacity, Production , Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2008-09			2009-10			% Achieved	Status as on
			Prodt.	Demand	supply	Prodt.	Demand	supply		
1	CRI Kasauli (ml)	2.75	0.00	1.25	1.25	0.00	0.71	0.71	100.00	Mar-10
2	Other									
<b>Total</b>		<b>2.75</b>	<b>0.00</b>	<b>1.25</b>	<b>1.25</b>	<b>0.00</b>	<b>0.71</b>	<b>0.71</b>	<b>100.00</b>	

**Installed Capacity, Production and supply of quantity of different Vaccines & Sera during 2008-09 and proposed production during 2009-10**

Quantity in Lakhs of doses

S.No	Institutions	Installed Capacity	2008-09			2009-10			
			Prodtn.	Demand	supply	Prodtn.	Demand	supply	% Achieved
UIP-VACCINES									
1	BCG	2000	1888.26	0.00	0.00	1824.23	0.00	0.00	0.00
2	DPT	9338	1786.69	963.71	337.02	1337.12	1318.72	969.06	73.48
3	DT	1150	422.12	429.09	59.39	126.04	106.24	106.32	100.08
4	TT	18192	6402.03	3723.999	2666.069	2663.5	1849.186	1549.516	83.79
5	OPV	35080	13387.29	12448.61	12443.28	5097.87	5538.78	5527.93	99.80
6	Measles	3300	2461.66	25.00	25.00	1065.26	0.00	0.00	0.00
NON-UIP VACCINES									
7	JEV	311.1	0	0.00	0.00	0.00	0.00	0.00	0.00
8	TCARV	281	159.67	112.19	104.9	163.90	123.43	121.34	98.31
9	Typhoid (vi-polysacharoid)	370	24.60	21.78	21.78	27.50	19.1	19.1	100.00
10	Typhoid (AKD)	30	0.00	3.25	1.962	0.00	1.42	0	0.00
11	Hepatitis-B	5360	907.73	464.72	462.72	707.66	336.58	336.58	100.00
IHR-VACCINES									
12	YFV	0.55	1.19	1.06	0.82	1.82	1.07	1.06	90.06
13	MMV	15.00	0.45	0.20	0.20	0.00	0.00	0.00	90.06
14	Influenza vaccine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.06
NEWER VACCINES									
15	Hib vaccine	40	3	1.50	1.50	0.00	0.00	0.00	0.00
16	DTwp-HepB	540	0	0.44	0.44	0.00	0.00	0.00	0.00
17	DTwp-Hib	4500	0	2.69	2.69	0.00	0.00	0.00	0.00
18	DTwp-HepB-Hib	0	6.19	14.06	14.06	100	14.06	14.06	100.00
19	MMR	0	247.07	0.00	0.00	0.00	133.47	0.00	0.00
20	MR	2000	1066.64	0.00	0.00	61.91	0.00	0.00	0.00
21	Rubella	2000	48.44	0.00	0.00	55.86	0.00	0.00	0.00
22	Cholera	45	0	0.00	0.00	2.02	0.22	0.22	100.00
ANTI-SERA									
Quantity in Lakhs of vials									
23	ATS	8.70	4.80	0.105	0.105	0.75	0.75	0.75	100.00
24	ADS	2.20	0.0084	0.111	0.0904	0.10	0.0169	0.015	88.76
25	ASVS (Snake)	75.20	0.39	1.37	1.29	1.51	1.70	1.51	89.13
26	ASVS (scorpion)	0.95	0.08	0.11	0.11	0.00	0.05	0.027	54.00
27	ARS	7.40	0	1.18	0.00	0.00	0.1	0.00	0.00
28	AGGS	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	NHS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	Diagnostic Reagent	2.75	0.00	1.25	1.25	0.00	0.71	0.71	100.00

Source- EPI Section, Dte. G.H.S., M/O Health &amp; Family Welfare, Nirman Bhavan, New Delhi.

## 6.4 The Directory Of Health Research Institutions In India – 2007

Published by :  
The Indian Council of Medical Research, New Delhi.  
In collaboration with WHO (India)

### The Background

Over the years, the health sector has seen the emergence of several stakeholders, resources mechanisms and commitments towards meeting various health and development needs. Increasing emphasis is also being laid on developing evidence based health policies. Today, there is a greater recognition for the role that health research can and must play in achieving various health and related goals.

A health research system functions as the “brain” of a health system, to enable it to respond effectively to the health challenges. The key objective of a health research system is to coordinate health research through appropriate architecture and mechanisms. There is an array of specific objectives of a health research system, which include, inter alia, setting health research priorities, generating knowledge, building capacity, developing standard procedures and mechanisms to ensure ethics, quality, accountability and transparency, mobilizing resources and conducting advocacy for better partnership. A prime objective is immediate response and being alert to the continuing needs and challenges of health development (Strategies for Health Research Systems in South East Asia Region, WHO 2001).

In India, various organizations are engaged in health research – research institutes, medical colleges, non governmental organizations as well as government institutions. However, there is presently no comprehensive database available on health research institutions in the country and their areas of expertise. With a view to fill this lacunae, the Indian Council of Medical Research (ICMR) in collaboration with the WHO Country Office for India undertook an exercise on mapping Health Research Institutions to develop a database of health research institutions in the country. It is envisaged that such a directory of health research institutions would be useful in outlining ongoing research priorities as well as developing partnerships in health research.

### The Process

Given the vast scope of health research, one of the foremost tasks was to develop an operational definition for health research and to set the scope of the study. An expert group meeting was held to define Health Research, Health Research Institutions, classification of Research, and the areas of research and who to access for information.

The definition and class of research as agreed upon is as follows:

- ▶ **Health Research:** Systematic generation of knowledge that can be used to promote, restore, maintain and/or protect health of the individuals and populations.
- ▶ **Health Research Institutions:** Groups of/and professionals, dedicated to health research as a legal entity or a unit of a larger legal entity.

**Health Research Classification:** This included:

- ▶ Basic Research – Studies detailing structure and function including immunity and pathogenesis, usually laboratory based.
- ▶ Clinical Research – Research conducted with human subjects in a medical setting, designed to obtain better information on the natural history, response to interventions/prophylaxis or pathogenesis of a condition that may lead to improved strategies for diagnosis, treatment or prevention of ill health.
- ▶ Epidemiological Research – The study of distribution and determinants of health related conditions in human populations and the use of this knowledge to improve their health status.
- ▶ Health Systems Research – Research that examines the provisions, resource generation (human and infrastructure), financing, governance and the utilization of health care services.

contd...



- ▶ **Social, Economic and Behavioral Research** Research that focuses on social, cultural, economic and behavioural factors that may modify the risk and outcome of disease in individuals and populations.
- ▶ **Operational Research** Combination of research techniques looking at problems in a system so as to provide better solution to managers in control of operations.
- ▶ **Bio-Ethics Research** Research on moral, ethical, legal and social issues pertaining to health.
- ▶ **Health Information Research and Bio-informatics** Research in the field of health information science.
- ▶ **Bioengineering and Diagnostics** Research to develop innovative biologics, materials, processes, implements, devices and informatics for the prevention, diagnosis treatment and rehabilitation.
- ▶ **Biotechnology and Pharmaceutical Research** Research related to discovery and development of new chemicals entities and biological products for health care.
- ▶ **Traditional and Complementary Medical Research** Application of all the above research systems on the rich heritage of India and other traditional systems which can be incorporated in the following health care system.

Based on the deliberations at the meeting, a questionnaire was prepared and pre-tested. Simultaneously, a database of approximately 2000 health institutions in the country was created. Health Institutions, medical colleges and universities in the country were identified from:

- (i) Published papers in Indian medical journals and articles by Indians in foreign medical journals for 2004-2005.
- (ii) Databases obtained from donor agencies like World Bank.
- (iii) Websites of Ministry of Health, Defence, Petro-chemicals, Department of Education, DBT, DST, CDRI, CSIR, CII, OPPI, FICCI, Department of Indian System of medicine, Association of Indian Industries, MCI, NGOs, donor agencies, UN organizations, Association of Universities and health institutions.
- (iv) Annual reports from 2003-2004 Ministry of health & family welfare, Directory of Recognized In-House R&D Units, Directory of Public Funded Research Institutions and others registered with DSIR, Directory of Recognized Scientific and Industrial Research Organisations by Department of Scientific and Industrial Research Ministry of Science & Technology.

The questionnaire was mailed to these institutions. The questionnaire aimed to identify the type and area of research undertaken by the institution. The contact details and brief description about the institution was also sought..

The response to the questionnaire was low less than 300 (299) institutions responded. In view of this, to fill in the information gap, internet searches were also conducted. Information obtained from the survey as well as internet searches and other sources has been compiled in this directory. Such information is therefore restricted to those institutions that have a website and have listed research as one of its activities or have indicated participating in development projects related to health.

As part of the compilation of the directory, the team faced various challenges such as incomplete information, information provided by individuals departments of medical colleges, the absence of websites for many institutions, time consuming effort required to get web addresses etc. While the information provided in the directory is not complete, and several institutions engaged in health research may be outside its ambit, this is a first step towards compiling in a single place, information about institutions that indicate that they are carrying out health research in India. As more information becomes available this may be updated. Notwithstanding these limitations, it is hoped that this directory would be useful not only to research institutions/researchers but also for government departments, donor agencies and private institutions interested in health research.

## **‘Health Committee and Commission Reports, 1946-2005’**

Over the past decades, several **Committees and Commissions** have been appointed by the Government to examine issues and challenges facing the health sector. The purpose of these committees formed from time to time is to review the current situation regarding health status in the country and suggest further course of action in order to accord the best of healthcare to the people.

The earliest committees included, the **Health Survey and Development Committee (Bhore Committee)** and **Sokhey Committee**. Other main Committees in the Post Independence period, included **Mudaliar Committee, Chadha Committee, Mukherjee Committee, Jungalwalla Committee, Kartar Singh Committee; Mehta Committee, Bajaj Committee** amongst others. Some of the recent Committees include the **Mashelkar Committee** and the **National Commission on Macroeconomics and Health**. The committee and commissions have been headed by eminent public health experts, who have studied the issues in an in-depth manner and provided overarching recommendations for various aspects of the health care system in India. The areas covered by them related to organization, integration and development of health care services / delivery system across levels; health policy and planning; national programmes; public health; human resources; indigenous system of medicine; drugs and pharmaceuticals amongst others. An examination of these reports reveals the options, lessons and challenges for strengthening India’s health system.

The reports of the various committees and commissions from early 1940s to 2005 have been digitized for easy access to researchers, policy makers, health planners, health workers, teachers, students amongst others. This compilation has been a collective initiative of the Ministry of Health & Family Welfare, Government of India and the WHO Country Office for India, New Delhi.

Although there has been an effort to incorporate all health related reports, there may be others which have not been included in this compilation.

This compilation seeks to provide easy access to the reports from the shelves of history, as they continue to have relevance for the present and future health systems of the country, with the hope that we may reflect on them and use them as a guiding tool while we chart the way forward.

These reports can be accessed from the following website: <http://nrhm-mis.nic.in/Publications.aspx> of the Ministry of Health and Family Welfare.

## 6.5 THE CLINICAL ESTABLISHMENTS (REGISTRATION AND REGULATION) ACT, 2010 THE GAZETTE OF INDIA No. 23 OF 2010

[18<sup>th</sup> August 2010]

**Chapter I: Preliminary: Clause 1(2)** It applies, in the first instance, to the whole of the States of Arunachal Pradesh, Himachal Pradesh, Mizoram and Sikkim and the Union territories; and it shall apply to such other State which adopts this Act by resolution passed in that behalf under clause (1) of article 252 of the Constitution.

**Chapter II : The National Council For Clinical Establishments: Clause 3(1)** With effect from such date as the Central Government may, by notification appoint in this behalf, there shall be established for the purposes of this Act, a Council to be called the National Council for clinical establishments.

**Chapter III: Registration And Standards For Clinical Establishments: Clause 8(1)** Every State Government shall by notification constitute a state Council for clinical establishments or the Union territory Council for clinical establishment, as the case may be.

**Clause 10. (1)** The State Government shall, by notification, set-up an authority to be called the district registering authority for each district for registration of clinical establishments, with the following members, namely:-

- (a) District Collector – Chairperson;
- (b) District Health Officer --- Convenor;
- (c) Three members withl such qualification and on such terms and conditions as may be prescribed by the Central Government.

**Chapter IV:** Procedure for Registration

**Chapter V:** Maintenance of National /State Wise/District Wise Digital Register of Clinical Establishments

**Chapter VI:** Penalties

**Chapter VII:** Miscellaneous and Mandatory Reporting By Clinical Establishments Etc.

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