

6. HEALTH INFRASTRUCTURE

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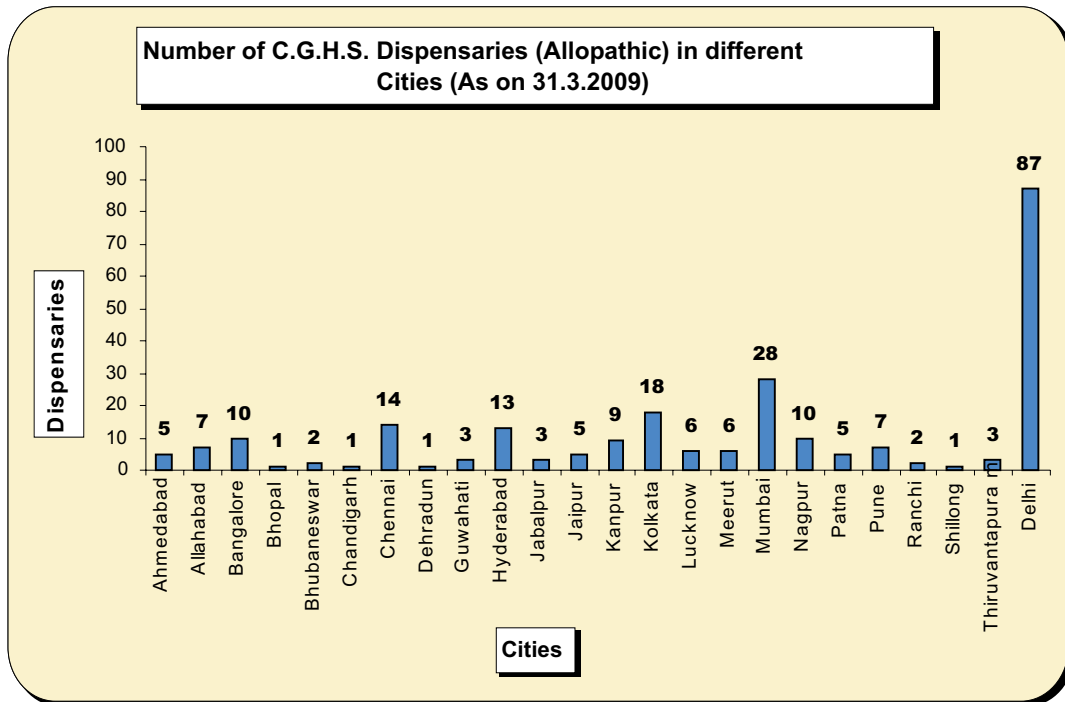
6. Health Infrastructure

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.

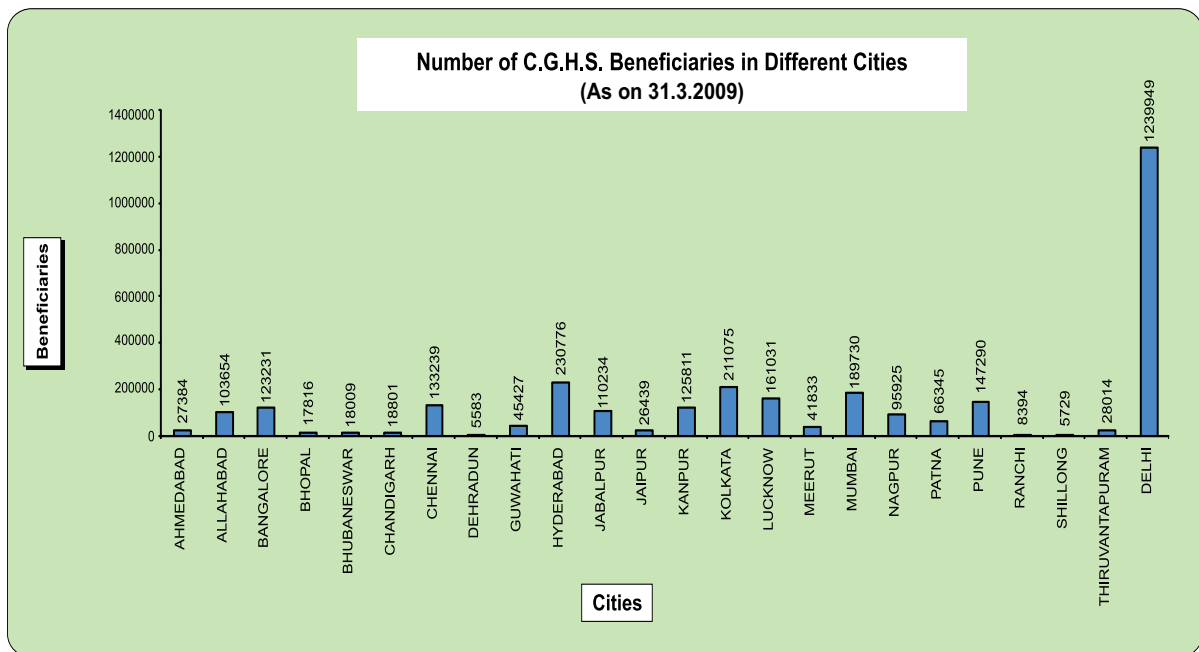
- ▶ Medical education infrastructures in the country have shown rapid growth during the last 19 years. The country has 300 medical colleges, 290 Colleges for BDS courses and 140 colleges conduct MDS courses with total admission of 34,595, 23520 and 2,644 respectively during 2009-10.
- There are 1,820 Institution for General Nurse Midwives with admission capacity of 65109 and 561 colleges for Pharmacy (diploma) with an intake capacity of 33635 as on 31st March,2009.
- There are 11,613 hospitals having 5,40,328 beds in the country 6,281 hospitals are in rural area with 143069 beds and 3,115 hospital are in Urban area with 3,69,351 beds. Rural and Urban bifercation is not available in the States of Bihar and Jharkhand.
- Medical care facilities under AYUSH by management status i.e. dispensaries & hospitals are 22,312 & 3,378 respectively as on 1.4.2009
- There are 1,46,036 Sub Centers, 23,458 Primary Health Centers and 4,276 Community Health Centers in India as on March 2008 (Latest).
- India has 961 Government licensed Blood banks and 1386 Private blood banks till 2009. Total No. of Blood Banks in the Country till November 2009 are 2347.

- ▶ CGHS has health facilities in 24 cities having 246 Allopathy Dispensaries and Total 435 Dispensaries in the Country with 934825 registered cards/ families.



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

- ▶ During 2008-09 the city wise no. of CGHS beneficiaries has been analysed and presented in the graph.



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 2009-10

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

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.

Source: Medical Council of India

6.1.2 Number of Dental Colleges & Admissions to BDS and MDS Courses in India 1995-96 to 2009-10

S.No.	Year	No. of Dental Colleges	BDS	MDS
			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

Note:

* MDS in 140 Dental Colleges

▪ 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	3	4	5	6	7	8	9	10	11	12	13	14
1	Andhra Pradesh	7	360	2	138			1	30	5	248	15	776
2	Arunachal Pradesh									1	50	1	50
3	Assam	1	62							3	150	4	212
4	Bihar	8	358	4	180					15	917	27	1455
5	Chhattisgarh	3	187	1	40			1	40	3	200	8	467
6	Delhi	1	46	2	92					2	154	5	292
7	Goa	1	40							1	50	2	90
8	Gujarat	12	530					1	50	16	1645	29	2225
9	Haryana	6	195							1	50	7	245
10	Himachal Pradesh	1	60							1	100	2	160
11	Jammu & Kashmir	1	105	1	40							2	145
12	Jharkhand	1	50							2	100	3	150
13	Karnataka	58	2983	5	198			3	110	11	909	77	4200
14	Kerala	16	896			1	50			5	286	22	1232
15	Madhya Pradesh	17	793	4	180					20	1791	41	2764
16	Maharashtra	63	3814	5	262					49	4409	117	8485
17	Orissa	6	205							6	213	12	418
18	Punjab	12	598							4	345	16	943
19	Rajasthan	7	438	2	90					7	546	16	1074
20	Tamil Nadu	5	210	1	40	7	426	4	155	10	780	27	1611
21	Uttar Pradesh	15	695	11	517					9	532	35	1744
22	Uttarakhand	4	234							1	50	5	284
23	West Bengal	3	116	1	40					13	778	17	934
24	Chandigarh	1	50							1	80	2	130
TOTAL		249	13025	39	1817	8	476	10	385	186	14383	492	30086

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 2009

S. No.	Description of the courses	No. of Institutions	Admissions capacity / no. Admitted
	1	2	3
1	General Nurse Midwives ¹	1820	65109
2	Aux. Nurse Midwives ¹	491	10680
3	Pharmacy (diploma) ²	561	33635

Notes:

¹ Reference period 31-3-2009

² Reference period upto December - 2009

Source: Indian Nursing Council, Pharmacy Council of India.

6.2 Service Infrastructure

6.2.1 State/UT wise Number of Sub Centers, PHCs & CHCs Functioning in India as on March 2008 (Latest)

S.No.	States/UT	Sub Centres	PHCs	CHCs
	1	2	3	4
	India	146036	23458	4276
1	Andhra Pradesh	12522	1570	167
2	Arunachal Pradesh	592	116	44
3	Assam	4592	844	103
4	Bihar	8858	1641	70
5	Chhattisgarh	4741	721	136
6	Goa	172	19	5
7	Gujarat	7274	1073	273
8	Haryana	2433	420	86
9	Himachal Pradesh	2071	449	73
10	Jammu & Kashmir	1907	375	85
11	Jharkhand	3958	330	194
12	Karnataka	8143	2195	323
13	Kerala	5094	909	107
14	Madhya Pradesh	8834	1149	270
15	Maharashtra	10579	1816	407
16	Manipur	420	72	16
17	Meghalaya	401	103	26
18	Mizoram	366	57	9
19	Nagaland	397	86	21
20	Orissa	6688	1279	231
21	Punjab	2858	484	126
22	Rajasthan	10742	1503	349
23	Sikkim	147	24	4
24	Tamil Nadu	8706	1215	206
25	Tripura	579	76	11
26	Uttarakhand	1765	239	55
27	Uttar Pradesh	20521	3690	515
28	West Bengal	10356	924	349
29	A & N Islands	114	19	4
30	Chandigarh	14	0	2
31	D & N Haveli	38	6	1
32	Daman & Diu	22	3	1
33	Delhi	41	8	0
34	Lakshadweep	14	4	3
35	Puducherry	77	39	4

Source: Bulletin on Rural Health Statistics in India 2008. 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	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
	India	6281	143069	3115	369351	11613	540328	1137588	97958	2105	
1	Andhra Pradesh	167	6220	192	28113	359	34333	80712	224825	2351	01.01.2007
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	9	552	11	2436	20	2988	1655	82750	554	01.01.2010
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	275	8179	102	11739	377	19918	67569	179228	3392	01.01.2008
15	Maharashtra	376	11280	389	38299	765	49579	109553	143207	2210	01.01.2010
16	Manipur	24	669	4	1574	28	2243	2336	83429	1067	01.01.2009
17	Meghalaya	28	840	10	1742	38	2582	2560	67368	991	01.01.2010
18	Mizoram	10	320	10	904	20	1224	958	47900	783	01.01.2008
19	Nagaland	23	705	25	1445	48	2150	2197	45771	1022	01.01.2010
20	Orissa	1629	9055	80	5708	1709	14763	40025	23420	2711	01.01.2010
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	29	700	1	300	30	1000	598	19933	598	01.01.2010
24	Tamil Nadu	533	25078	48	22120	581	47198	65629	112959	1391	01.01.2008
25	Tripura	16	500	15	1762	31	2262	3532	113935	1561	01.01.2010
26	Uttar Pradesh	397	11910	528	20550	925	32460	183282	198143	5646	01.01.2007
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	465	58125	557	01.01.2010
30	Chandigarh	1	50	5	2562	6	2612	1161	193500	444	01.01.2008
31	D&N Haveli	1	30	1	231	2	261	318	159000	1218	01.01.2010
32	Daman & Diu	0	0	3	190	3	190	248	82667	1305	01.01.2010
33	Delhi	21	972	109	22886	130	23858	16955	130423	711	01.01.2009
34	Lakshadweep	9	200	–	–	9	200	73	8111	365	01.01.2008
35	Puducherry	6	320	8	2996	14	3316	1267	90500	382	01.01.2010

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 1.4.2009 (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
A. Under jurisdiction of States/Union Territories																	
1	State/Govt./UT Administration	2228	12386	224	952	269	513	4	27	8	15	90	5039	0	5	2823	18937
2	Local Bodies	11	1338	0	43	0	6	0	0	0	8	0	1062	0	0	11	2457
3	Others	167	25	25	0	4	0	5	40	159	209	141	24	2	125	503	423
Total (A)		2406	13749	249	995	273	519	9	67	167	232	231	6125	2	130	3337	21817
B. CGHS & Central Government organizations																	
4	C.G.H.S.	1	35		11		3		2				37			1	88
5	Raiway ministry		40										129			0	169
6	Labour Ministry :		130				5						32			0	167
7	Ministry of col		16													0	16
8	Research Councils	22	4	7	10	2	2				5	3	29		1	34	51
9	National Institutes	3	1	1		1					1	1	2			6	4
TOTAL		26	226	8	21	3	10	0	2	0	6	4	229	0	1	41	495
All India (A+B)		2432	13975	257	1016	276	529	9	69	167	238	235	6354	2	131	3378	22312

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 November 2009

S.No.	State/ UT	Government	Private Charitable	Total
	1	2	3	4
	India	961	1386	2347
1	Andhra Pradesh	69	153	222
2	Arunachal Pradesh	3	0	3
3	Assam	37	32	69
4	Bihar	29	26	55
5	Chattisgarh	17	20	37
6	Goa	3	3	6
7	Gujarat	33	125	158
8	Haryana	20	38	58
9	Himachal Pradesh	18	1	19
10	Jammu & Kashmir	23	2	25
11	Jharkhand	25	17	42
12	Karnataka	42	129	171
13	Kerala	39	114	153
14	Madhya Pradesh	53	74	127
15	Maharashtra	77	196	273
16	Manipur	3	0	3
17	Meghalaya	4	2	6
18	Mizoram	3	2	5
19	Nagaland	4	0	4
20	Orissa	64	17	81
21	Punjab	46	45	91
22	Rajasthan	48	33	81
23	Sikkim	2	1	3
24	Tamilnadu	101	165	266
25	Tripura	6	1	7
26	Uttar Pradesh	72	101	173
27	Uttarakhand	16	7	23
28	West Bengal	74	33	107
29	Andaman & Nicobar	2	0	2
30	Chandigarh	3	1	4
31	Dadra & Nagar Haveli	0	1	1
32	Daman & Diu	1	0	1
33	Delhi	21	37	58
34	Lakshadweep	N.A.	N.A.	N.A.
35	Puducherry	3	10	13

Notes:

- N.A.: Not Available

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)													
				Psychiatrists			Clinical Psychologists			physical Social workers			Psychiatric nurses			Dist. Wise distribution of Psychiatric facilities	
		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	Pudducherry	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

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 31.3.2009

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	0	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	2	1
8	Dehradun	1	0	0	0	0
9	Guwahati	3	1	0	0	0
10	Hyderabad	13	6	2	1	1
11	Jabalpur	3	0	0	1	0
12	Jaipur	5	2	1	3	1
13	Kanpur	9	3	1	4	1
14	Kolkata	18	4	1	5	1
15	Lucknow	6	3	1	2	1
16	Meerut	6	2	0	2	1
17	Mumbai	26	5	2	4	3
18	Nagpur	11	3	1	0	1
19	Patna	5	2	1	1	1
20	Pune	7	3	1	1	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	37	4	31	6
	Total	246	86	18	64	21

Note: This table shows only the number of dispensaries in different cities. For exact address of the dispensaries Please contact the some 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, 2009

S.No.	Name of City	Total No. of Cards	Total No. of Beneficiaries
1	2	3	4
1	Ahmedabad	8086	27384
2	Allahabad	22782	103654
3	Bangalore	41823	123231
4	Bhopal	72691	17816
5	Bhubaneswar	3509	18009
6	Chandigarh	6436	18801
7	Chennai	40947	133239
8	Dehradun	2214	5583
9	Guwahati	12008	45427
10	Hyderabad	64505	230776
11	Jabalpur	27462	110234
12	Jaipur	8283	26439
13	Kanpur	27887	125811
14	Kolkata	69643	211075
15	Lucknow	30636	161031
16	Meerut	11323	41833
17	Mumbai	52834	189730
18	Nagpur	26386	95925
19	Patna	16537	66345
20	Pune	45552	147290
21	Ranchi	2492	8394
22	Shillong	1639	5729
23	Thiruvantapuram	12007	28014
24	Delhi	327143	1239949
Total		934825	3181719

25 Jammu - Wellness Centre was inaugurated on 4-6-2009 and total no. of card holders are 91.

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

6.2.8 State and System wise Number of AYUSH Hospitals and Dispensaries in India as on 1.4.2009 (Provisional)

S. No.	State/UT & other	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
A. States/Union Territories																	
1	Andhra Pradesh	9	557	6	196					18	35	6	286			39	1074
2	Arunachal Pradesh	11	2					1	1			2	53	6	14	62	
3	Assam	1	380		1			1	25	3	2	3	75		8	483	
4	Bihar	11	311	4	144			1		2		11	179		29	634	
5	Chhattisgarh	9	634	1	6					2	5	3	52	1	15	698	
6	Delhi	10	148	2	25			2	4	4	10	2	98	4	20	289	
7	Goa	1	11							1	2	1	5		3	18	
8	Gujarat	44	504							2	13	16	216	1	62	734	
9	Haryana	8	493	1	7					7	2	1	22		17	524	
10	Himachal Pradesh	27	1109		3					3		1	14	2	12	33	1138
11	Jammu & Kashmir	2	273	2	235					1				82	5	590	
12	Jharkhand	1	122		30					1		2	54		4	206	
13	Karnataka	130	561	14	50			3		23	32	21	43	7	191	693	
14	Kerala	124	740		1	2	6			37	20	33	525		196	1292	
15	Madhya Pradesh	34	1427	2	50					6	9	22	146		64	1632	
16	Maharashtra	55	469	5	25					7	10	45		2	112	506	
17	Manipur									10	2	1	9		11	11	
18	Meghalaya	4	15									7	25	1	11	41	
19	Mizoram									1			1		1	1	
20	Nagaland		85									1	1	115	1	201	
21	Orissa	8	624		9				35	1	30	6	603	2	15	1303	
22	Punjab	15	507		35				1		5	5	107		20	655	
23	Rajasthan	107	3559	3	102			1		4	11	9	177		124	3849	
24	Sikkim	1	1										1	3	1	5	
25	Tamil Nadu	8	43	1	21	270	497	1	25	26	9	46			313	634	
26	Tripura	1	41									1	80		2	121	
27	Uttar Pradesh	1771	340	204	49					4	6	8	1575	1	1987	1971	
28	Uttarakhand	7	467	2	3					2	3	1	60	3	12	536	
29	West Bengal	4	295	1	3					3	5	12	1534	5	20	1842	
30	A&N Islands	1	1	1		1						1	8		4	9	
31	Chandigarh	1	8									1	7		2	15	
32	D&N Haveli		3										1		4		
33	Daman & Diu		1												1		
34	Lakshadweep		2										1		3		
35	Puducherry	1	16			16					3		7		1	42	
TOTAL (A)		2406	13749	249	995	273	519	9	67	167	232	231	6125	2	130	3337	21817
B. CGHS & Central Government Organization		26	226	8	21	3	10		2		6	4	229	1	41	495	
TOTAL (A+B)		2432	13975	257	1016	276	529	9	69	167	238	235	6354	2	131	3378	22312

Note :- Figures are Provisional

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 2009

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
	Total	586

Source: Add. DGHS (RJ), DGHS, MOHFW (Ophthalmology Section)

6.3 Vaccinewise and Institution-wise status of production, demand and supply 2008-09

1. BCG - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodn.	Demand	supply	% Achieved	
1	BCGVL Chennai	800		800.00	250.00	0.00	0.00	0.00		Mar-09
2	SII Pune	1200								
Total		2000	0.00	800.00	250.00	0.00	0.00	0.00		

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodn.	Demand	supply	% Achieved	
1	PII Coonoor	705	279.48	660.00	144.79	0.00	0.00	0.00		License suspended
2	CRI Kasauli	300	800.00	260.00	168.40	0.00	160.71	117.79	73.29	Mar-09
3	HBPCL Mumbai	488	0.00	0.00	0.00	0.00	0.00	0.00		License suspended
4	SII Pune	3000	871.96							
5	HBI Udhagamandalam Hyderabad	650	46.00	2.60	2.60	290.00	273.79	273.79	100.00	Mar-09
6	SBL Hyderabad	3000	6.72	5.00	5.00	0.00	0.40	0.40	100.00	Mar-09
7	Biological -E-Limited	1500				800.00	800.00	216.23	27.03	Dec-08
Total		9643	2004.16	927.60	320.79	1090.00	1234.90	608.21	49.25	

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodn.	Demand	supply	% Achieved	
1	PII Coonoor	705	0.00	200.00	2.99	0.00	0.00	0.00		License suspended
2	CRI Kasauli	200	500.00	135.00	125.00	0.00	52.49	37.49	71.42	Mar-09
3	HBPCL Mumbai	100	144.73	155.00	155.00	0.00	0.00	0.00		License suspended
4	SII Pune	300	27.66							
5	HBI Udhagamandalam Hyderabad	100	5.00	1.60	1.60	80.00	73.74	73.74	100.00	Mar-09
6	Biological -E-Limited	300				375.00	375.00	20.30	5.41	Dec-08
Total		1705	677.39	491.60	284.59	455.00	501.23	131.53	26.24	

6.3 (Contd.) 6.3 Vaccinewise and Institution-wise status of production, demand and supply 2008-09

4. TT - 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	Prodtn.	Demand	supply	% Achieved	
1	Pll Coonoor	1800	490.41	1000.00	179.31	0.00	0.00	0.00		License suspended
2	CRI Kasauli	400	808.00	235.00	171.4	0.00	130.14	130.14	100.00	Mar-09
3	HBPCL Mumbai	712	0.00	94.37	94.37	0.00	0.00	0.00		License suspended
4	SII Pune	7000	1276.95							
5	KIPM Chennai	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Mar-09
6	PI Shillong	50	0.50	0.05	0.049	0.00	0.01	0.01	100.00	Mar-09
7	Bio Vaccine Hyd'bad	300								
8	Dano Vaccine H'bad	1600	276.84	250.00	271.4	1248.61	1490.00	1214.22	81.49	Mar-09
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	45.00	52.50	52.5	230.06	704.47	704.47	100.00	Mar-09
11	Biological -E-Limited	4000				3268.00	1380.00	597.85	43.32	Dec-08
Total		19692	3027.70	1651.26	788.369	5146.67	4044.32	2986.39	73.84	

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	Prodtn.	Demand	supply	% Achieved	
1	HBPCL Mumbai	6000	299.54	1350.00	272.00	250.00	17.83	12.5	70.11	Mar-09
2	BIBCOL Bulandshahar	6000								
3	Panacea Bio-tech Ltd. Delhi	16000	1030.87	1392.95	1392.95	6571.29	5955.78	5955.78	100.00	Dec-08
4	Bio-Med (P) Ltd. Ghaziabad	80	16.00	12.00	12.00					
5	Bharat Biotech Internatioanl (L). Hyd'bad	10,000	5.25	2.32	2.32	6550.00	6463.00	6463.00	100.00	Mar-09
6	Sanofi pasteur India Pvt.Ltd Delhi	-	-	-	-	-	1.00	1.00	100.00	Dec-08
Total		38080	1351.66	2757.27	1679.27	13371.29	12437.61	12432.28	99.96	

6. Measles - 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	Prodtn.	Demand	supply	% Achieved	
1	SII Pune	3000								
2	HBI Udhagamandalam Hyderabad	300	30.00	25.00	25.00	50.00	0.00	0.00		Mar-09
Total		3300	30.00	25.00	25.00	50.00	0.00	0.00		

6.3 (Contd.) 6.3 Vaccinewise and Institution-wise status of production, demand and supply 2008-09

7. JEV - 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	Prodtn.	Demand	supply	% Achieved	
1	CRI Kasauli	11.1	0.76	3.50	3.50					Mar-09
2	Shanta Biotechnics Pvt. ltd Hy'bad	2000								
Total		2011.1	0.76	3.50	3.50	0.00	0.00	0.00		

8. YFV - 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	Prodtn.	Demand	supply	% Achieved	
1	CRI Kasauli (indigenous)	0.55	1.19	1.06	0.82	0.00	1.10	1.07	97.27	Mar-09
2	Sanofi pasteur Delhi						0.09	0.09	100.00	Dec-08
Total		0.55	1.19	1.06	0.82	0.00	1.19	1.16	97.48	

9. TCARV - 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	Prodtn.	Demand	supply	% Achieved	
1	PII Coonoor	5	3.00	1.31	1.31	0.00	0.00	0.00		License suspended w.e.f. 15.1.08
2	SII Pune	20	8.17							Report not received
3	Zyudus Cadilla Ahmedabad	24	18.00	18.00	4.37	18.00	18.00	13.50	75.00	Mar-09
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								
7	Bharat Bio tech Hy,bad	80	3.87	3.13	3.13	40.00	36.71	36.71	100.00	Mar-09
Total		284	129.04	79.92	63.50	148.2	131.18	126.48	96.42	

10. Typhoid (Vi-Poly) - 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	Prodtn.	Demand	supply	% Achieved	
1	Bio-Med (P) Ltd. Ghaziabad	40	7.10	4.70	4.70					Report not received
2	Zyudus Aventis Ahmedabad	30	2.00	2.91	0.70	0.00	0.30	0.30	100.00	Mar-09
3	BBI (L). Hy'bad	300	0.00	2.78	2.78	17.50	16.78	16.78	100.00	Mar-09
4	Sanofi Pasteur Delhi	-	-	-	-	-	0.76	0.76	100.00	Dec-08
Total		370	9.10	10.39	8.18	17.50	17.84	17.84	100.00	

6.3 (Contd.) 6.3 Vaccinewise and Institution-wise status of production, demand and supply 2008-09

11. Typhoid (AKD) - 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	CRI Kasauli	30	7.88	11.50	7.89	0.00	3.25	1.96	68.61	Mar-09
2	Other									
	Total	30	7.88	11.50	7.89	0.00	3.25	1.96	68.61	

12. Hepatitis-B - 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	SII Pune	1000	360.35							30.9.07
2	Panacea Bio-tech Ltd. New Delhi- multidose presentation	540	0.00	0.12	0.12					Sept.07
3	Panacea Bio-tech Ltd. New Delhi- single dose presentation	120	8.88	17.01	15.01				17.01	Sept. 07
4	BBI (L), Hy'bad,	1000	12.35	17.39	17.39	150.00	161.66	161.66	100.00	Mar-09
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	280.50	245.00	245.00	127.16	192.58	192.58	100.00	Mar-09
7	Biological-E-Ltd.	500				4.39	80.42	80.42	100.00	Dec-08
	Total	5360	702.08	292.45	290.45	321.55	458.49	458.49	100.00	

13. Quaderivalent Meningococcal Minigitis Vaccine (QMMV) - 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	Bio-Med (P) Ltd. Ghaziabad	15.00	0.45	0.20	0.20					
2	NICD Delhi-Import	2.08	2.10	1.71	1.81					
	Total	17.08	2.55	1.91	2.01	0	0	0		

14. Haemophilis (Hib) Influenzae vaccine - 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	Bio-Med (P) Ltd. Ghaziabad	40	3.00	1.50	1.50					
2	Sanofi pasteur						2.84	2.84	100.00	Dec-08
3	Panacae			2.49	2.49	3630.00	2.20	2.20	100.00	Dec-08
4	Shanta Biotech. Ltd. H'bad	150	1.179	0.304	0.304	0.72	1.83	1.83	100.00	Mar-09
	Total	190	4.179	4.294	4.294	3630.72	6.87	6.87	100.00	

6.3 (Contd.) 6.3 Vaccinewise and Institution-wise status of production, demand and supply 2008-09

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodtn.	Demand	supply	% Achieved	
(i)	Panacae	540		0.44	0.44					
(ii)	Shanta Biotech. Ltd. H'bad		104.80	35.41	35.41	82.13	53.91	53.91	100.00	Mar-09
	Total	540	104.80	35.85	35.85	82.13	53.91	53.91	100.00	

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodtn.	Demand	supply	% Achieved	
(i)	Panacae	4500	3.46	2.53	2.53		2.69	2.69	100.00	Dec-08
	Sanofi pasteur Delhi						2.11	2.11	100.00	Dec-08
(ii)	Shanta Biotech. Ltd. H'bad	3000				1.54	2.14	2.14	100.00	Mar-09
	Total	7500	3.46	2.53	2.53	1.54	6.94	6.94	100.00	

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodtn.	Demand	supply	% Achieved	
(i)	Panacae		6.19	4.17	4.17	37.82	14.06	14.06	100.00	Dec-08
(ii)	Shanta Biotech. Ltd. H'bad	1000				140.99	83.95	83.95	100.00	Mar-09
	Total	1000	6.19	4.17	4.17	178.81	98.01	98.01	100.00	

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodtn.	Demand	supply	% Achieved	
(i)	HBI Udhagamandalam Hyderabad		7.00			8.70	0.00	0.00		Mar-09
(ii)	SII Pne		238.37							
	Total		245.37			8.70	0.00	0.00		

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodtn.	Demand	supply	% Achieved	
(i)	Sanofi pasteur Delhi						2.80	2.80	100.00	Dec-08

6.3 (Contd.) 6.3 Vaccinewise and Institution-wise status of production, demand and supply 2008-09

20. ATS - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09			Status as on	
			Prod.	Demand	supply	Prodtn.	Demand	supply		% Achieved
1	CRI Kasauli (ml)	0.9				0.00	10511.00	10511.00	100.00	Mar-09
2	HBPCL Mumbai	0.9	0.00	0.00	0.00	0.00	0.00	0		Mar-09
3	SII Pune	0.4								
4	Biological E Ltd. Hyd'bad	0.5								
5	B.S.& V Ltd. Thane	1.0								
6	Biological-E-Ltd	5.0				4.80	0.00	0.00		Dec-08
Total		8.7	0.00	0.00	0.00	4.80	10511.00	10511.00	100.00	

21. ADS - Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09			Status as on	
			Prod.	Demand	supply	Prodtn.	Demand	supply		% Achieved
1	CRI Kasauli (Vials)	0.8	0.099	0.07	0.40	0.00	10000.00	8211.00	82.11	Mar-09
2	HBPCL Mumbai	0.9	0.00	0.00	0.00	840.00	1130.00	845.00	74.78	Mar-09
3	SII Pune									
4	B.S.& V Ltd. Thane	0.5								
Total		2.2	0.099	0.07	0.40	840.00	11130.00	9056.00	81.37	

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09			Status as on	
			Prod.	Demand	supply	Prodtn.	Demand	supply		% Achieved
1	CRI Kasauli (ml)	3.00	0.25	0.54	0.38	0.00	69560.00	69560.00	100.00	Mar-09
2	HBPCL Mumbai	39.30	0.16	0.51	0.33	39650.00	58573.00	60696.00	103.62	Mar-09
3	SII Pune	4.00								
4	Biological E Ltd. Hyd'bad	10.00								
5	KIPM Chennai	7.50	0.00	0.00	0.00					
6	Bengal Chemical & Pharmaceutical Kolkota	0.60	0.04	0.05	0.03	0.00	0.10	0.00	0.00	Dec-08
7	Vins Bio-Products Ltd. Hy'bad	0.40								
8	Bharat Serum & Vaccine Ltd. Thane	8.40								
9	Biological -E- Ltd	2.00				1.17	0.00	0.00		Dec-08
Total		75.20	0.45	1.10	0.74	39651.17	128133.10	130256.00	101.66	

6.3 (Contd.) 6.3 Vaccinewise and Institution-wise status of production, demand and supply 2008-09

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodn.	Demand	supply	% Achieved	
1	HBPCL Mumbai	0.90	0.00	0.00129	0.00093	7957.00	11000.00	11000.00	100.00	Mar-09
2	Bharat serum & Vaccines Thane	0.05								
Total		0.95	0.00	0.00129	0.00093	7957.00	11000.00	11000.00	100.00	

24. ARS (Snake)- Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodn.	Demand	supply	% Achieved	
1	CRI Kasauli (ml)	2.50	0.38	1.36	1.22	0.00	1185.10	1185.10	100.00	Mar-09
2	Bharat Serum & Vaccine Ltd. Thane	3.00								
3	Cadilla Pharmaceutical Ltd. Ahmedabad	1.00	309.00	720.00	544.00	0.005	0.0012	0.0012	100.00	Dec-08
4	Haffkine BPCL Mumbai	0.90	0.00	0.00	0.00					Mar-09
5	HBI Udhagamandalam Hyderabad		0.15	0.10	0.10	0.50	0.193	0.193	100.00	Mar-09
Total		7.40	309.38	721.36	545.32	0.51	1185.29	1185.29	100.00	

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodn.	Demand	supply	% Achieved	
1	Bharat Serum & Vaccine Ltd. Thane	4.00								
2	Other									
Total		4.00	0	0	0	0	0	0		

26. NHS- Installed Capacity, Production, Demand and Supply

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09				Status as on
			Prod.	Demand	supply	Prodn.	Demand	supply	% Achieved	
1	CRI Kasauli (ml)	0.00	0.0636	0.033	0.033	0.00	8800.00	8800.00	100.00	Mar-09
2	Other									
Total		0.00	0.0636	0.033	0.033	0.00	8800.00	8800.00	100.00	

6.3 (Contd.) 6.3 Vaccinewise and Institution-wise status of production, demand and supply 2008-09

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

Quantity in Lakh of Doses

S. No	Institutions	Installed Capacity	2007-08			2008-09			Status as on	
			Prod.	Demand	supply	Prodn.	Demand	supply		% Achieved
1	CRI Kasauli (ml)	2.75	1.78	0.59	0.59	0.00	125050.00	125050.00	100.00	Mar-09
2	Other									
	Total	2.75	1.78	0.59	0.59	0.00	125050.00	125050.00	100.00	

Statement .1

Installed Capacity, Production and supply of quantity of different Vaccines & Sera during 2007-08 and proposed production during 2008-09

Quantity in Lakhs of doses

S.No	Institutions	Installed Capacity	2007-08			2008-09			
			Prod.	Demand	supply	Prodn.	Demand	supply	% Achieved
UIP-VACCINES									
1	BCG	2000	0.00	800.00	250.00	0.00	0.00	0.00	
2	DPT	9643	2004.163	927.60	320.79	1090.00	1234.9	608.21	49.25
3	DT	1705	677.385	491.60	284.59	455.00	501.23	131.53	26.24
4	TT	19692	3027.70	1651.259	788.369	5146.67	4044.316	2986.386	73.84
5	OPV	38080	1351.66	2757.27	1679.27	13371.29	12437.61	12432.28	99.96
6	Measles	3300	30.00	25.00	25.00	50.00	0.00	0.00	
NON-UIP VACCINES									
7	JEV	2011.1	0.76	3.50	3.50	0.00	0.00	0.00	
8	TCARV	284	129.04	79.92	63.5	148.20	131.18	126.48	96.42
9	Typhoid (vi-polysaccharoid)	370	9.10	10.39	8.18	17.50	17.83596	17.83596	100.00
10	Typhoid (AKD)	30	7.88	11.5	7.89	0.00	3.25	1.96	60.31
11	Hepatitis-B	5360	702.08	292.45	290.45	321.55	458.49	458.49	100.00
IHR-VACCINES									
12	YFV	0.55	1.19	1.06	0.82	0.00	1.19	1.16	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	2.80	2.80	90.06
NEWER VACCINES									
15	Hib vaccine	40	3.0	1.50	1.50	0.00	0.00	0.00	
16	DTwp-HepB	540	0.0	0.44	0.44	0.00	0.00	0.00	
17	DTwp-Hib	4500	3.46	2.53	2.53	0.00	2.69	2.69	100.00
18	DTwp-HepB-Hib	0	6.19	4.17	4.17	37.82	14.06	14.06	100.00
19	MMR	0	245.37	0.00	0.00	8.70	0.00	0.00	
ANTI-SERA									
Quantity in Lakhs of vials									
20	ATS	8.70	0.00	0.00	0.00	4.80	10511.00	10511.00	100.00
21	ADS	2.20	0.099	0.07	0.40	840.00	11130.00	9056.00	81.37
22	ASVS (Snake)	75.20	0.45	1.10	0.74	39651.17	128133.10	130256.00	101.66
23	ASVS (scorpion)	0.95	0.00	0.00129	0.00093	7957.00	11000.00	11000.00	100.00
24	ARS	7.40	309.382	721.36	545.32	0.505	1185.29	1185.29	100.00
25	AGGS	4.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	NHS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	Diagnostic Reagent	2.75	1.78	0.586	0.586	0.00	125050.00	125050.00	100.00

SOURCE- EPI SECTION, DTE. G.H.S., M/O HEALTH & FAMILY WELFARE, NIRMAN BHAVAN, NEW DELHI.

6.4 The Directory Of Health Research Institutions In India – 2007

Published by :
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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.