

School Infrastructure

School infrastructure Provision under SSA since Inception

Under the SSA, Karnataka State has seen massive infrastructure development at school level. Apart from opening of new schools, SSA has also provided basic facilities in existing schools. There has been a considerable rise in the availability of basic facilities in schools. SSA, Karnataka in its due course of implementation of RTE Act is making its efforts towards ensuring creation of the school infrastructure facility as specified in the Schedule to the RTE Act, which in turn would be creation of Social Infrastructure.

The infrastructure facilities that are to be provided as per RTE entitlements are as shown in the following table.

Sl No.	Components pertaining to Infrastructure		Facilities as per RTE norms
1	All-weather building	(i)	At least one class-room for every teacher
			& An office-cum-store-cum-Head teacher's room
		(ii)	Barrier- free access(Ramps , handrails)
		(iii)	Separate toilets for boys and girls
		(iv)	Safe and adequate drinking water facility to all children
		(v)	a kitchen where mid-day meal is cooked in the school
		(vi)	play ground
		(vii)	arrangements for securing the school building by boundary wall or fencing
2	Teaching learning equipments		Shall be provided to each class as required
3	Library		There Shall be a library in each school providing newspaper, magazines and books on all subjects, including story-books
4	Play material, games and sports equipment		Shall be provided to each class as required

Guidelines on various aspects of civil works

The successful execution of civil works requires consideration of aspects namely design, planning and appropriate quality. SSA, Karnataka is executing civil works through participatory decentralized

mechanism where the School Development and Monitoring Committees at the school level are executing with the technical support by Block Engineer and Facilitation by District Engineer. In addition, there is 3rd Party Quality Monitoring and Technical Audit carried out the agencies identified at the State level.

The particulars of execution are as follows:

(1) Management/Supervision Structure:-

- The school infrastructure needs are identified by the districts in accordance with the gaps in infrastructure as per District Information of School Education data which is school wise. The same is placed before the District Implementation Committee and then vetted at the state level by Executive Committee and the approval is obtained by MHRD.
- Detailed guidelines pertaining to sanctions of civil works components year wise is issued along with plan and estimate accordingly.
- The technical support at various levels from the state to the Block level towards ensuring quality construction by SDMC's.
- Supervision Structure towards implementation of Civil Works Components are as shown below:

(2) SI No	Approved Sanctioned Post /		Approved Sanctioned Post /		Approved Sanctioned Post /	
	Designation	No.	Designation	No.	Designation	No.
1	Project Engineer [EE-1 + AEE-4]	5	District Engineers	34	Block Engineers	202
2	ADPI	1	0	0	0	0
3	Consultant Engineer	6	0	0	0	0
Total		12		34		202

Community participation in civil works:

Under SSA, the participation of the community in civil work activities is essential in order to engender a sense of ownership and responsibility. Hence, a constructional manual called “Kattada Nirmana Kaipiti” is developed and provided to district and block level to ensure the quality construction by SDMC's.

(3) Third party evaluation of civil works

Given the large number of Civil Works, a mechanism of 3rd Party quality assessment and technical audit is carried out to provide feedback and rectification during construction.

(4) Civil Work Plans: Plans of Civil Works are prepared by consolidating the needs of the schools through School Development Plans by the blocks and then at the district level. This is carried out in collaboration and ultimately based on the gaps that arise in the DISE information system.

(5) **Funds** : Once the approval by the MHRD is obtained the funds are released to districts and districts in turn would release the amount to the SDMC accounts.

(6) How to choose a site for a new school building?

- It should be within 1Kms of the settlement
- It should not be located in any particular community's area
- The area of the site should ideally be of 1 acre. In no case should it be less than 1000sqm.
- It should preferably be of a regular shape
- The site should not be in a low lying area or in an area of heavy slope.
- The building should not be located in filled up soil or in soil with decomposed plant/animal material
- Water should be available on or near the site. It should preferably have access to Electricity.
- It should not be located near hazardous area or sources of noise like highways, rail-tracks, factories etc.

(7) Aspects to be examined and ensured before taking up of Construction activity

- Whether MOU by BEO, BRC, SDMC President and HM of the school made?
- Whether the amount is released to SDMC account?
- Whether the site is registered in the name of the school / Department of Education?
- Whether concerned engineer is visiting the site for providing technical assistance?
- Whether the construction is being taken up as per plan and estimate?
- Whether third party technical assistance is available or not?
- Ensure that construction materials is not mismanaged
- Whether construction workers identified and accordingly registered maintained?
- To ensure that the presence of engineer is mandatory during foundation, basement, lintel, plint, roof and flooring levels of construction.]
- Ensure that Measurement Books are recording periodically and execution accordingly along with SDMC proceedings for withdrawal of funds.
- To ensure that the technical guidance and feedback provided by Engineers and Third Party QA&TA is acted upon.
- **To ensure that child friendly elements and safety measures are taken care**

Civil Works achievement of SSA-Karnataka since inception

The various components approved and executed under SSA since inception of SSA, ie. 2001-02 to 2012-13 is,

- The total physical approved was 2562243 of which 2124963 have been executed

- An amount of Rs. 285656.7603 lakhs was approved of Rs. 261500.396 lakhs have been utilized.
- The works that are in progress are 122349 and with an amount of Rs. 23421.081 lakhs.

The details component wise is as shown below:

Sl. No	Item of work	Physical		Financial		In Progress	
		Target	Achievement	Allocation	Expenditure	Physical	Financial
1	BRCs	90	90	540.000	540	0	0.000
2	Augumentation of training facility in BRCs (2010-II RTE)	152	143	760.000	735.75	1	24.250
3	CRCs	1411	1409	2822.000	2820	0	2.000
4	New primary schools	3736	3611	20277.925	19842.49817	10	230.528
5	Buildingless school(PS)	4	0	85.600	26	1	59.600
6	Dilapidated buildings(PS)	0	0	0.000	0	0	0.000
7	New upper primary schools(rural)	10	1	156.000	93.6	0	65.400
8	Buildingsless schools(UPS)	1	0	15.600	5	0	10.600
9	Dilapidated buildings(UPS)	0	0	0.000	0	0	0.000
10	Refurbishing of existing surplus room to create residential facility	405	263	1980.450	1635.162	10	328.148
11	Additional class rooms (Primary)	53327	49532	157574.990	144810.338	752	11073.622
12	Upgraded primary additional class rooms	776	1415	2903.760	4665.453	17	93.187
13	Additional class rooms for adding viii	2272	617	12382.400	7768.016	340	4621.744
14	Additional class rooms (Metro city)	413	413	2092.500	2092.5	0	38.150
15	Toilets (primary)/(upper primary)	24524	24431	6506.700	6334.4	0	172.300
16	Girls toilets	22799	22544	10237.000	10038.95	7	198.060
17	CWSN toilets	5306	4037	2653.000	2279.85	249	373.150
18	Incinerators to school	2217	1405	155.190	117.74	707	37.450
19	H.M. Rooms (U.primary)	6103	5736	25545.850	24290.566	6	-613.516
20	H.M. Rooms (primary)	267	386	1197.800	1412.009	73	1653.591
21	Residential hostel(construction)	5	0	762.650	0	4	760.650
22	Drinking water (primary)or (upper primary)	22861	22856	2501.800	2501.8	0	0.000
23	Compound wall(primary or upper primary)	3717	3717	1860.400	1860.4	0	0.000
24	Boundary wall		0		0	0	0.000
25	Boundary wall (2012-13 in mts)	610293	297042.4	10680.128	7743.5805	76449.6	2923.292
26	Electrification	50608	50593	2530.400	2529.8	0	0.550
27	Child friendly elements (Ramps)	1875	1875	445.750	445.75	0	0.000
28	Ramps with handrails	1071	499	160.650	96.3	3	64.350
29	Major repairs (Primary)	5094	3798	3602.024	2824.9298	220	325.686
30	Major repairs (U.Primary)	2131	1881	2211.048	2006.534	449	651.189
31	Furniture	1642423	1529124	8212.115	7911.61	42244	300.510
32	Library(Primary)	31053	30280	931.590	908.4	773	23.190

33	Library(U.Primary)	22761	22727	2276.100	2272.7	34	3.400
34	Fire extinguisher	44538	44538	890.760	890.76	0	0.000
		2562243	2124963.4	284952.1803	261500.3965	122349.6	23421.081

The district wise Particulars of various civil work components are as follows:

CUMULATIVE (2001-02 to 2012-13) DISTRICT WISE & COMPONENT WISE SANCTIONED

Sl.no.	Name of District	BR C	Augument ation training facility of BRC	CR C	New Scho ol Building	Add l. Clas s Room	Room s for upgraded school	Build ing Less (Pry)	Build ing Less (UP)	Additi onal Class Room to Bangal ore Metro City	Drink ing Wate r Facilit y	Hea d Mas ter Room (U.P)	Hea d Mas ter Room (P)	Toil ets	Separ are Girls Toilet	spec ial Toil ets for CW SN	Child Friendly Elements	Electric ity Connec tion
1	Bagalkot	0	6	7	231	2340	174	0	0	0	539	141	4	797	226	82	60	1428
2	BangaloreR ural	1	4	0	8	647	39	0	0	125	661	53	0	651	429	28	40	1192
3	Bangaloreur ban	9	9	121	164	1846	149	0	0	288	725	97	10	675	575	54	40	1755
4	Belgaum	2	14	136	427	4696	448	0	0	0	985	372	26	1647	735	96	100	4601
5	Bellary	1	8	2	233	3642	133	0	0	0	675	108	75	830	926	316	70	1870
6	Bidar	0	5	3	292	2761	143	0	0	0	379	179	5	906	983	146	50	1487
7	Bijapura	0	7	12	300	3328	200	0	0	0	855	341	12	851	1257	178	145	2288
8	Chamarajan agara	1	5	14	53	850	38	0	0	0	450	125	1	453	400	300	40	576
9	Chikkaballa pura	0	6	18	20	1207	54	0	0	0	680	78	0	615	1960	291	47	1719
10	Chikkaman galore	8	8	94	84	884	24	0	0	0	1208	293	0	1136	1012	160	70	1474
11	Chitradurga	6	6	84	172	1256	55	0	0	0	1035	215	8	1115	165	230	60	2031
12	DakshinaKa nnada	7	7	98	51	1263	42	0	0	0	453	238	0	466	249	933	50	614
13	Davanagere	6	0	84	78	1245	72	0	0	0	938	206	4	973	1004	152	60	1401
14	Dharwad	1	6	24	64	1947	93	0	0	0	409	98	2	546	208	50	50	430
15	Gadag	1	0	7	26	1003	66	0	0	0	250	145	14	406	353	96	50	396
16	Gulbarga	1	7	18	321	3649	223	0	0	0	1075	425	15	1065	1133	150	70	2781
17	Hassan	8	8	101	90	1251	33	0	0	0	1347	178	9	1161	1459	55	80	2797
18	Haveri	0	0	23	49	1526	81	0	0	0	900	323	4	650	497	159	70	616
19	Kodagu	3	3	23	41	446	15	0	0	0	247	163	1	283	281	51	30	434
20	Kolar	0	0	37	49	1251	59	0	0	0	583	65	1	683	898	192	63	1838

21	Koppal	0	4	26	131	2016	198	0	0	0	363	112	41	512	659	144	60	1283
22	Mandya	1	0	22	1	1089	38	3	0	0	641	170	3	507	820	459	70	1689
23	Mysore	1	9	6	55	1760	113	0	0	0	860	253	3	964	1039	61	70	2199
24	Raichur	0	5	33	165	3108	195	0	0	0	487	155	7	929	931	132	50	2588
25	Ramanagara	0	0	0	15	812	37	0	0	0	767	85	1	717	394	36	40	1244
26	Shimoga	7	7	101	115	1234	34	0	0	0	1221	256	0	1013	705	182	70	1434
27	Tumkur	10	10	140	160	2179	74	0	0	0	1471	495	0	1450	1147	284	100	4591
28	Udupi	5	5	65	38	502	24	1	1	0	497	177	0	614	254	133	30	543
29	Uttarakannada	11	0	110	144	1549	63	0	0	0	1512	298	0	1339	1281	124	110	2111
30	Yadagiri	0	3	2	169	2040	131	0	0	0	648	259	21	570	819	32	30	1198
	Total	90	152	1411	3746	53327	3048	4	1	413	22861	6103	267	24524	22799	5306	1875	50608

CUMULATIVE (2001-02 to 2012-13) DISTRICT WISE & COMPONENT WISE SANCTIONED

Compound wall	Boundary Wall (in Mtrs)	Major Repairs (Primary)	Major Repairs (Upper Primary)	Ramps with dandrils	Residential Schools	Refrubishing Unused old Buildings	Furniture	Library (Primary)	Library (Up)	Fire extinguisher	Incinators to School	Total
160	40000	68	72	0	0	3	171807	510	803	1313	326	221097
44	43000	161	39	16	0	7	16000	1400	444	1153	0	66142
200	31647	64	22	0	1	50	22985	706	727	1416	0	64335
10	19218	425	35	0	0	85	189688	1488	1809	3297	720	231060
30	34250	109	129	0	0	23	99758	543	818	1366	0	145915
95	40000	114	42	0	0	14	104051	556	752	1290	240	154493
152	12879	134	65	0	0	7	163763	854	1095	1844	0	190567
53	1560	64	64	0	0	19	16215	363	406	770	0	22820
17	36000	300	0	107	0	6	9600	1077	515	1592	0	55909
225	35067	172	98	294	0	7	46538	1513	695	1501	0	92565
100	0	145	120	0	0	0	26011	823	882	1708	0	36227

8	33200	100	144	0	1	0	23628	931	653	932	0	64068
75	10130	110	209	0	0	4	6944	1503	846	1385	0	27429
35	12300	52	45	0	1	7	46928	236	538	774	0	64844
158	18046	89	36	0	0	1	28996	428	428	617	0	51612
103	36321	183	67	0	0	20	192418	796	1009	1806	359	244015
100	50000	344	128	0	0	4	58708	1531	1037	2568	0	122997
185	9775	103	0	0	0	6	27662	1166	704	1169	0	45668
84	11942	56	56	20	0	3	13745	433	290	406	0	29056
17	9800	360	0	0	0	14	21096	1886	632	1903	0	41427
100	12005	132	139	0	0	38	0	964	553	968	0	20448
45	16000	227	56	104	0	7	942	1817	829	1821	0	27361
400	7365	189	40	0	1	20	18319	1009	942	2012	295	37985
178	12500	68	56	0	0	4	0	1497	792	1402	277	25559
46	6280	239	107	0	0	4	13905	945	449	1474	0	27597
40	35000	184	56	0	1	4	30265	1161	949	754	0	74793
175	25000	405	43	100	0	9	102744	2206	1340	3556	0	147689
25	2900	86	34	30	0	2	0	618	362	621	0	7567
815	4730	324	182	400	0	5	80083	1158	1003	2185	0	99537
42	3378	87	47	0	0	32	109624	935	459	935	0	121461
3717	610293	5094	2131	1071	5	405	1642423	31053	22761	44538	2217	2562243

The Cumulative Progress achieved as on April, 2013 is 92%