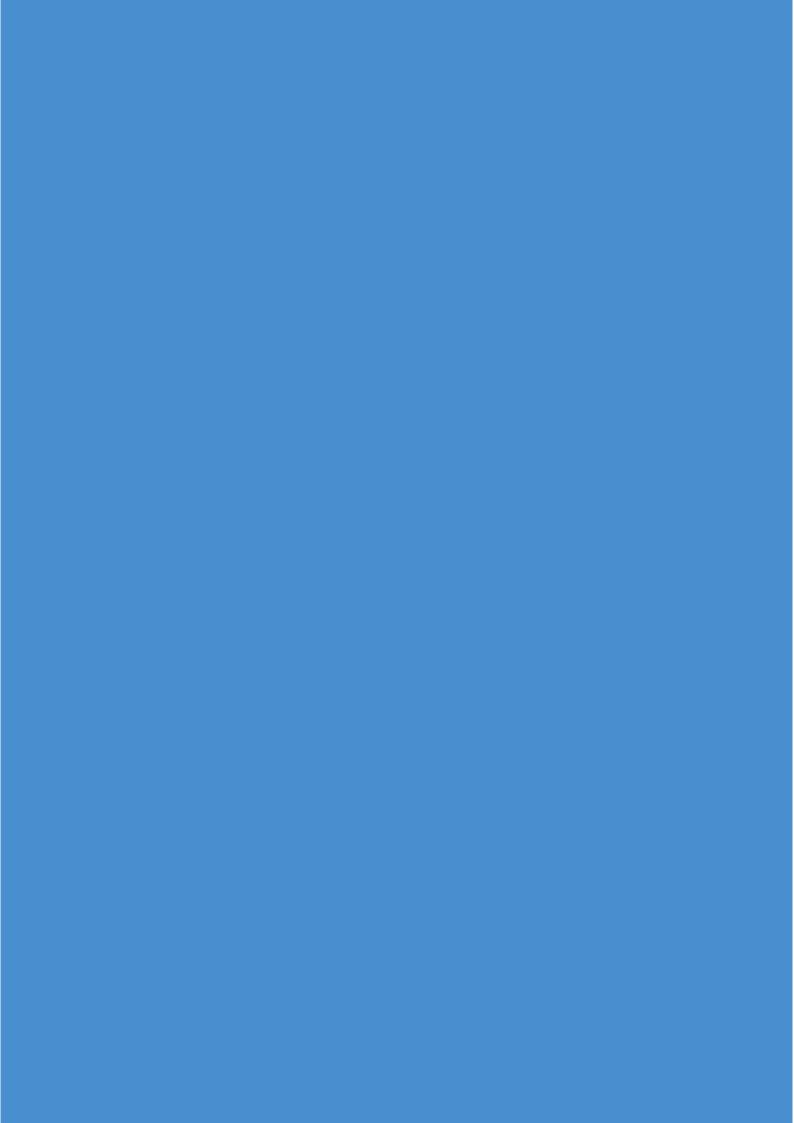
Annexures



Annexure 1.1 (Refer para 1.2.1)

Regional Offices of Central Ground Water Board

- 1. North West Himalayan Region, Jammu
- 2. North Himalayan Region, Dharamshala
- 3. North Western Region, Chandigarh
- 4. Uttaranchal Region, Dehradun
- 5. Northern Region, Lucknow
- 6. Western Region, Jaipur
- 7. Mid-Eastern Region, Patna
- 8. Eastern Region, Kolkata
- 9. North Eastern Region, Guwahati
- 10. West Central Region, Ahmedabad
- 11. Central Region, Nagpur
- 12. North Central Region, Bhopal
- 13. North Central, Raipur
- 14. South Eastern Region, Bhubaneshwar
- 15. Southern Region, Hyderabad
- 16. South Western Region, Bangalore
- 17. South Eastern Coastal Region, Chennai
- 18. Kerala Region, Trivandrum

Annexure 2.1 (Refer para 2.1)

Categorization of Blocks/Mandals/Talukas in India (2017)

SI.	State/ UTs	Total No. of	Saf	fe		mi- tical	Criti	cal	Ove Explo		Sali	ine
No.		Assessed Units	Nos.	%	Nos.	%	Nos	%	Nos.	%	Nos.	%
				State	s							
1	Andhra Pradesh	670	501	75	60	9	24	4	45	7	40	6
2	Arunachal Pradesh	11	11	100	0	0	0	0	0	0	0	0
3	Assam	28	28	100	0	0	0	0	0	0	0	0
4	Bihar	534	432	81	72	13	18	3	12	2	0	0
5	Chhattisgarh	146	122	84	22	15	2	1	0	0	0	0
6	Delhi	34	3	9	7	21	2	6	22	65	0	0
7	Goa	12	12	100	0	0	0	0	0	0	0	0
8	Gujarat	248	194	78	11	4	5	2	25	10	13	5
9	Haryana	128	26	20	21	16	3	2	78	61	0	0
10	Himachal Pradesh	8	3	38	1	13	0	0	4	50	0	0
11	Jammu & Kashmir	22	22	100	0	0	0	0	0	0	0	0
12	Jharkhand	260	245	94	10	4	2	1	3	1	0	0
13	Karnataka	176	97	55	26	15	8	5	45	26	0	0
14	Kerala	152	129	78	30	20	2	1	1	1	0	0
15	Madhya Pradesh	313	240	77	44	14	7	2	22	7	0	0
16	Maharashtra	353	271	77	61	17	9	3	11	3	1	0
17	Manipur	9	9	100	0	0	0	0	0	0	0	0
18	Meghalaya	11	11	100	0	0	0	0	0	0	0	0
19	Mizoram	26	26	100	0	0	0	0	0	0	0	0
20	Nagaland	11	11	100	0	0	0	0	0	0	0	0
21	Odisha	314	303	96	5	2	0	0	0	0	6	2
22	Punjab	138	22	16	5	4	2	1	109	79	0	0
23	Rajasthan	295	45	15	29	10	33	11	185	63	3	1
24	Sikkim	4	4	100	0	0	0	0	0	0	0	0
25	Tamil Nadu	1,166	427	37	163	14	79	7	462	40	35	3
26	Telangana	584	278	48	169	29	67	11	70	12	0	0
27	Tripura	59	59	100	0	0	0	0	0	0	0	0
28	Uttar Pradesh*	830	540	65	151	18	48	6	91	11	0	0
29	Uttarakhand	18	13	72	5	28	0	0	0	0	0	0
30	West Bengal **	268	191	71	76	28	1	0	0	0	0	0
	Total	6,828	4,265	62	968	14	312	5	1,158	17	98	1
			Uni	on Terr	itories							
1	Andaman & Nicobar	36	35	97	0	0	0	0	0	0	1	3
2	Chandigarh											
3	Dadra & Nagar Haveli	1	0	0	1	100	0	0	0	0	0	0
4	Daman & Diu	2	1	50	0	0	1	50	0	0	0	0
5	Lakshadweep	9	6	67	3	33	0	0	0	0	0	0
6	Puducherry	4	2	50	0	0	0	0	1	25	1	25
	Total UTs	53	45	85	4	8	1	2	1	2	2	4
	Grand Total	6,881	4,310	63	972	14	313	5	1,186	17	100	1

Blocks- Bihar, Chhattisgarh, Haryana, Jharkhand, Kerala, M.P., Manipur, Mizoram, Orissa, Punjab, Rajasthan, Tripura, UP; **Taluks**-Karnataka, Goa, Gujarat, Maharashtra; **Mandal** - Andhra Pradesh, Telangana; **Districts (Valley)**

⁻ Arunachal Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Meghalaya, Mizoram, Nagaland; **Islands** - Lakshadweep, Andaman & Nicobar Islands; **Firka-**Tamil Nadu; **Region** - Puducherry

UT - Chandigarh, Dadar& Nagar Haveli, Daman & Diu; Tehsil-NCT Delhi

^{*}Uttar Pradesh: There are total 820 blocks and ten cities.

^{**} The Ground Water Resources Assessment as on 2013 has been considered for the State of West Bengal.

Annexure 2.2 (Refer para 2.2)

State-Wise Ground Water Resources of India, 2017 (in billion cubic meter)

SI. No.	States / UTs		Gro	und Water Ro	echarge		Total Natural	Annual Extractable		Current Annual Ground Extraction		Vater	Annual GW	Net Ground	Stage of Ground
		Recharge from rainfall	n Season Recharge from other sources	Non-monso Recharge from rainfall	Recharge from other sources	Total Annual Ground Water Recharge	Discharge	Ground Water Resources	Irrigation	industrial	Domestic	Total	Allocation for the Domestic use as on 2025	Water Availabili ty for future use	Water Extraction (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	States	0.00	5.63	4.04		24.22	1.07	20.45	7.05	0.14	0.00	0.00	4.40	12.01	
1	Andhra Pradesh	9.96	5.62.	1.21	4.42	21.22	1.07	20.15	7.85	0.14	0.90	8.90	1.48	12.31	44.15
2	Arunachal Pradesh	1.89	0.18	0.95	0.01	3.02	0.36	2.67	0	0	0.01	0.01	0.03	2.64	0.28
3	Assam	20.22	0.43	7.28	0.74	28.67	4.42	214.26	1.97	0.06	0.69	2.73	0.79	21.43	11.25
4	Bihar	19.83	3.95	3.14	4.50	31.41	2.43	28.99	10.78	0.66	1.83	13.26	1.83	15.78	45.76
5	Chhattisgarh	7.82	1.86	0.76	1.64	11.57	1	10.57	3.98	0.05	0.67	4.70	0.79	5.76	44.43
7	Delhi	0.13 0.19	0.06	0.03	0.11	0.32	0.02	0.30	0.09	0.02	0.24	0.36	0.29	0.02	119.61
-	Goa		0.03	0.01	0.05	0.27	0.11	0.16	0.02			0.05	0.04	0.07	33.50
8 9	Gujarat	15.95 3.56	3.40 2.55	0 1.03	3.02 3.00	22.37 10.15	1.12	21.25 9.13	12.84 11.53	0.11 0.34	0.63 0.63	13.58 12.50	0.90 0.72	7.98 0.87	63.89 136.91
10	Haryana Himachal Pradesh	0.34	0.02	0.11	0.04	0.51	0.05	9.13 0.46	0.20	0.34	0.63	0.39	0.72	0.87	86.37
11	Jammu & Kashmir	1.00	0.02	0.11	0.04	2.89	0.03	2.60	0.20	0.07	0.19	0.39	0.50	1.84	29.47
12	Jharkhand	5.25	0.30	0.88	0.31	6.21	0.29	5.69	0.20	0.07	0.56	1.58	0.56	4.13	27.73
13	Karnataka	6.59	4.36	2.67	3.22	16.84	2.05	14.79	9.39	*	0.95	10.34	1.14	5.41	69.87
14	Kerala	3.91	0.04	0.68	1.13	5.77	0.56	5.21	1.22	0.01	1.44	2.67	1.57	2.41	51.27
15	Madhya Pradesh	27.10	1.51	0.82	6.99	36.42	1.95	34.47	17.43	0.01	1.24	18.88	1.72	15.84	54.76
16	Maharashtra	20.59	2.29	0.53	8.23	31.64	1.74	29.90	15.10	0.003	1.22	16.33	2.28	12.91	54.62
17	Manipur	0.23	0.01	0.17	0.02	0.43	0.04	0.39	0	0.003	0	0.01	0.014	0.34	1.44
18	Meghalaya	1.37	0.01	0.43	0.02	1.83	0.19	1.64	0.03	0	0.01	0.01	0.02	1.59	2.28
19	Mizoram	0.16	0	0.05	0	0.21	0.02	0.19	0	0	0.01	0.01	0.01	0.18	3.82
20	Nagaland	1.65	0.03	0.52	0	2.20	0.22	1.98	0	0	0.02	0.02	0.02	1.96	0.99
21	Odisha	10.53	2.34	1.50	2.37	16.74	1.17	15.57	5.28	0.14	1.15	6.57	1.30	8.85	42.18
22	Punjab	5.54	11.83	1.31	5.25	23.93	2.345	21.58	34.56	0.20	1.01	35.78	1.41	1.09	165.77
23	Rajasthan	9.74	0.78	0.24	2.44	13.21	1.22	11.99	14.85	0	1.92	16.77	2.67	0.88	139.88
24	Sikkim	5.20	0	0.43	0	5.63	4.11	1.52	0	0	0	0	0.01	1.51	0.06
25	Tamil Nadu	6.67	9.41	1.89	2.26	20.22	2.02	18.20	13.06	0	1.67	14.73	1.85	5.66	80.94
26	Telangana	7.56	1.42	1.88	2.76	13.62	1.25	12.37	7.09	*	1.00	8.09	1.39	4.26	65.45
27	Tripura	0.80	0.06	0.40	0.26	1.53	1.29	1.24	0.02	0	0.08	0.10	0.11	1.11	7.88
28	Uttar Pradesh	37.73	11.67	1.59	18.93	69.92	4.60	65.32	40.89	*	4.95	45.84	5.96	20.36	70.18
29	Uttarakhand	1.15	0.93	0.09	0.87	3.04	0.15	2.89	1.30	0.13	0.22	1.64	0.22	1.25	56.83
30	West Bengal**	18.71	1.51	5.26	3.85	29.33	2.77	26.56	10.84	*	1.00	11.84	1.53	14.19	44.60

SI. No.	States / UTs		Gro	und Water Ro	echarge		Total Natural	Annual Extractable			nual Ground V	Vater	Annual GW	Net Ground	Stage of Ground
NO.		Monsoo Recharge from rainfall	n Season Recharge from other sources	Non-monso Recharge from rainfall	oon Season Recharge from other sources	Total Annual Ground Water Recharge	Discharge	Ground Water Resources	Irrigation	industrial	Domestic	Total	Allocation for the Domestic use as on 2025	Water Availabili ty for future use	Water Extraction (%)
	Total States	251.36	66.41	36.30	77.06	431.13	39.09	392.04	221.33	2.38	24.77	248.47	31.52	172.82	63.38
	Union Territories														
1	Andaman & Nicobar	0.35	0	0.02	0	0.37	0.04	0.33	0	0	0.01	0.01	0.01	0.32	2.74
2	Chandigarh	0.02	0.01	0	0.01	0.04	0	0.04	0	*	0.03	0.03	0.03	0	89.00
3	Dadra & Nagar Haveli	0.06	0	0	0.01	0.07	0	0.07	0.01	*	0.01	0.02	0.01	0.04	31.34
4	Daman & Diu	0.02	0	0	0	0.02	0	0.02	0.01	0	0	0.01	0	0	61.40
5	Lakshdweep	0.01	0	0	0	0.01	0.01	0.004	0	0	0.002	0.002	0	0	65.99
6	Puducherry	0.09	0.07	0.02	0.05	0.23	0.02	0.20	0.11	*	0.04	0.15	0.04	0.05	74.33
	Total UTs	0.54	0.08	0.05	0.07	0.73	0.08	0.66	0.13	0	0.10	0.23	0.10	0.43	34.51
	Grand Total	251.90	66.49	36.34	77.13	431.86	39.16	392.70	221.46	2.38	24.87	248.69	31.62	173.25	63.33

Note: *Industrial and domestic draft has not been estimated separately in Goa, Himachal Pradesh, Karnataka, Rajasthan, Tamil Nadu, Uttar Pradesh, Chandigarh, Dadra and Nagar Haveli and Puducherry **The Ground Water Resources Assessment as on 2013 has been considered for the state of West Bengal.

States/UTs having higher stage of extraction than the national average of 63%.

Annexure 2.3 (Refer para 2.4)

Observations wells of CGWB

Sl. No.	Name of the State/UTs	No of Monitoring Stations for water quality (As on March 2019)
	STATES	
1	Andhra Pradesh	635
2	Arunachal Pradesh	29
3	Assam	389
4	Bihar	729
5	Chhattisgarh	935
6	Delhi	64
7	Goa	93
8	Gujarat	620
9	Haryana	460
10	Himachal Pradesh	114
11	Jammu & Kashmir	266
12	Jharkhand	472
13	Karnataka	1466
14	Kerala	364
15	Madhya Pradesh	1,210
16	Maharashtra	1,719
17	Manipur	0
18	Meghalaya	52
19	Nagaland	25
20	Orissa	1,278
21	Punjab	312
22	Rajasthan	703
23	Tamil Nadu	816
24	Telangana	469
25	Tripura	90
26	Uttar Pradesh	869
27	Uttarakhand	203
28	West Bengal	1,301
	UTs	
1	Andaman & Nicobar	112
2	Chandigarh	16
3	Dadra & Nagar Haveli	18
4	Daman & Diu	14
5	Puducherry	8
	TOTAL	15,851

Annexure 2.4 (Refer para 2.5.1)

State-wise Depth to water Level and Distribution of Percentage of Wells for the Period of November 2018

SI. No. Name of No. of Depth to						Number 8	& Percen	tage of V	Vells Sho	wing De	pth to W	ater Lev	el (mbg	l) in the	Range o	of
	State	wells analysed		er Level nbgl)	0	-2	2	-5	5-	10	10	-20	20	0-40	>	40
		-	Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
1	Andaman & Nicobar Islands	102	0.10	6.49	91	89.22	10	9.80	1	1.0	0	0.00	0	0.00	0	0.00
2	Andhra Pradesh	730	0.00	44.27	219	30.00	256	35.07	172	23.6	77	10.55	5	0.68	1	0.14
3	Arunachal Pradesh	10	1.37	7.89	1	10.00	5	50.00	4	40.00	0	0.00	0	0.00	0	0.00
4	Assam	177	0.16	18.20	64	36.16	92	51.98	17	9.60	4	2.26	0	0.00	0	0.00
5	Bihar	654	0.64	13.50	77	11.77	375	57.34	183	27.98	19	2.91	0	0.00	0	0.00
6	Chandigarh	8	2.66	32.82	0	0.00	3	37.50	0	0.00	2	25.00	3	37.50	0	0.00
7	Chhattisgarh	599	1.12	24.10	19	3.17	365	60.93	191	31.89	20	3.34	4	0.67	0	0.00
8	Dadra & Nagar Haveli	17	1.46	10.78	2	11.76	9	52.94	5	29.41	1	5.88	0	0.00	0	0.00
9	Daman & Diu	11	0.55	6.16	5	45.45	4	36.36	2	18.18	0	0.00	0	0.00	0	0.00
10	Delhi	83	1.02	65.00	2	2.41	17	20.48	20	24.10	22	26.51	14	16.87	8	9.64
11	Goa	30	0.78	13.51	5	16.67	14	46.67	8	26.67	3	10.00	0	0.00	0	0.00
12	Gujarat	755	0.00	60.41	115	15.23	177	23.44	242	32.05	157	20.79	58	7.68	6	0.79
13	Haryana	315	0.04	102.00	37	11.75	52	16.51	70	22.22	89	28.25	51	16.19	16	5.08
14	Himachal Pradesh	103	0.31	31.58	30	29.13	36	34.95	19	18.45	14	13.59	4	3.88	0	0.00
15	Jammu & Kashmir	187	0.27	25.95	38	20.32	103	55.08	35	18.72	8	4.28	3	1.60	0	0.00
16	Jharkhand	281	0.64	15.90	21	7.47	145	51.60	107	38.08	8	2.85	0	0.00	0	0.00
17	Karnataka	1,380	0.05	30.70	220	15.94	482	34.93	499	36.16	165	11.96	14	1.01	0	0.00
18	Kerala	1,462	0.10	33.05	263	17.99	445	30.44	602	41.18	141	9.64	11	0.75	0	0.00
19	Madhya Pradesh	1,331	0.00	45.62	74	5.56	395	29.68	571	42.90	256	19.23	34	2.55	1	0.08
20	Maharashtra	1,659	0.01	50.80	180	10.85	571	34.42	586	35.32	282	17.00	39	2.35	1	0.06
21	Meghalaya	23	0.12	4.73	10	43.48	13	56.52	0	0.00	0	0.00	0	0.00	0	0.00
22	Nagaland	3	1.55	3.88	1	33.33	2	66.67	0	0.00	0	0.00	0	0.00	0	0.00
23	Odisha	1,290	0.00	13.69	420	32.56	698	54.11	165	12.79	7	0.54	0	0.00	0	0.00
24	Puducherry	4	1.31	2.85	3	75.00	1	25.00	0	0.00	0	0.00	0	0.00	0	0.00
25	Punjab	261	0.55	43.31	16	6.13	47	18.01	51	19.54	64	24.52	80	30.65	3	1.15
26	Rajasthan	1,034	0.20	130.20	43	4.16	150	14.51	228	22.05	217	20.99	188	18.18	208	20.12
27	Tamil Nadu	562	0.00	67.40	96	17.08	158	28.11	189	33.63	87	15.48	22	3.91	10	1.78
28	Telangana	567	0.00	99.70	60	10.58	175	30.86	170	29.98	113	19.93	41	7.23	8	1.41
29	Tripura	21	1.17	6.03	8	38.10	12	57.14	1	4.76	0	0.00	0	0.00	0	0.00
30	Uttar Pradesh	737	0.17	40.10	95	12.89	289	39.21	203	27.54	125	16.96	24	3.26	1	0.14
31	Uttarakhand	47	0.82	58.43	7	14.89	17	36.17	12	25.53	5	10.64	4	8.51	2	4.26
32	West Bengal	722	0.22	32.01	76	10.53	363	50.28	167	23.13	97	13.43	19	2.63	0	0.00
	Total	15165			2298	15.15	5481	36.14	4520	29.81	1983	13.08	618	4.08	265	1.7
	Range		0.00	130.20												

Annexure 2.5 (Refer para 2.5.1)

State-wise Decadal Water Level Fluctuation with Mean - November (2008 to 2017] and November 2018

SI. No.	Name of State	No. of wells analysed		Rang	ge in m				Rise	2					F	all			Ris	e	Fa	II	shov	ells wing o nge
			R	ise	l	Fall	0-2	m	2-	4 m	>4	m	0-2	! m	2-4	m	>4	m						
			Min	Max	Min	Max	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
1	Andhra Pradesh	730	0.01	9.93	0.01	18.37	173	23.7	14	1.9	8	1.1	352	48.2	110	15.1	73	10.0	195	27	535	73	0	0
2	Arunachal Pradesh	10	0.26	0.26	0.1	2.74	1	10.0	0	0.0	0	0.0	8	80.0	1	10.0	0	0.0	1	10	9	90	0	0
3	Assam	176	0.05	3.7	0.01	4.29	80	45.5	5	2.8	0	0.0	81	46.0	7	4.0	2	1.1	85	48	90	51	1	1
4	Bihar	638	0.01	6.68	0	8.4	207	32.4	23	3.6	1	0.2	312	48.9	72	11.3	23	3.6	231	36	407	64	0	0
5	Chandigarh	8	0.03	0.1	0.63	17.79	3	37.5	0	0.0	0	0.0	3	37.5	0	0.0	2	25.0	3	38	5	63	0	0
6	Chhattisgarh	513	0.02	9.68	0.02	17.7	86	16.8	21	4.1	9	1.8	289	56.3	92	17.9	16	3.1	116	23	397	77	0	0
7	Dadra & Nagar Haveli	17	0.34	2.73	0.1	5.26	2	11.8	1	5.9	0	0.0	11	64.7	1	5.9	2	11.8	3	18	14	82	0	0
8	Daman & Diu	11	0.08	2.99			9	81.8	2	18.2	0	0.0	0	0.0	0	0.0	0	0.0	11	100	0	0	0	0
9	Delhi	83	0.05	11.64	0	13.16	19	22.9	1	1.2	3	3.6	23	27.7	20	24.1	17	20.5	23	28	60	72	0	0
10	Goa	30	0.24	6.49	0.06	7.64	7	23.3	0	0.0	2	6.7	15	50.0	4	13.3	2	6.7	9	30	21	70	0	0
11	Gujarat	752	0.01	7.66	0.02	16.09	191	25.4	64	8.5	34	4.5	232	30.9	128	17.0	103	13.7	289	38	463	62	0	0
12	Haryana	305	0.02	15.05	0.01	16.03	90	29.5	12	3.9	6	2.0	109	35.7	51	16.7	37	12.1	108	35	197	65	0	0
13	Himachal Pradesh	110	0.05	10.49	0.06	13.27	74	67.3	6	5.5	10	9.1	18	16.4	1	0.9	1	0.9	90	82	20	18	0	0
14	Jammu & Kashmir	155	0.02	1.92	0.01	2.93	49	31.6	0	0.0	0	0.0	100	64.5	6	3.9	0	0.0	49	32	106	68	0	0
15	Jharkhand	276	0.01	3.28	0.01	4.7	110	39.9	3	1.1	1	0.4	128	46.4	29	10.5	4	1.4	114	41	161	58	1	0
16	Karnataka	1,373	0.01	8.33	0.01	19.23	413	30.1	68	5.0	32	2.3	581	42.3	163	11.9	114	8.3	513	37	858	62	2	0
17	Kerala	1,452	0.01	11.75	0.01	7.15	527	36.3	42	2.9	11	0.8	831	57.2	37	2.5	3	0.2	580	40	871	60	1	0
18	Madhya Pradesh	1,329	0.01	14.17	0.01	17.52	298	22.4	47	3.5	34	2.6	588	44.2	221	16.6	137	10.3	379	29	946	71	4	0
19	Maharashtra	1,633	0.01	15.94	0.01	19.43	330	20.2	49	3.0	21	1.3	763	46.7	263	16.1	207	12.7	400	24	1233	76	0	0
20	Meghalaya	23	0.03	4.26	0.03	1.66	11	47.8	0	0.0	1	4.3	11	47.8	0	0.0	0	0.0	12	52	11	48	0	0
21	Odisha	1,284	0.01	5.3	0	8.72	555	43.2	42	3.3	3	0.2	611	47.6	61	4.8	11	0.9	600	47	683	53	1	0
22	Puducherry	4	0.27	0.66	0.19	0.19	3	75.0	0	0.0	0	0.0	1	25.0	0	0.0	0	0.0	3	75	1	25	0	0
23	Punjab	249	0.04	4.43	0.04	11.69	56	22.5	9	3.6	1	0.4	94	37.8	37	14.9	52	20.9	66	27	183	73	0	0

SI. No.	Name of State	No. of wells analysed		Rang	ge in m				Rise	•					Fa	all			Ris	e	Fa	II	shov ne chai	o
			R	ise		all	0-2	m	2-4	1 m	>4	m	0-2 m 2-4 m >4 m					m						
			Min	Max	Min	Max	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
24	Rajasthan	618	0.02	17.05	0	17.9	155	25.1	48	7.8	43	7.0	178	28.8	92	14.9	102	16.5	246	40	372	60	0	0
25	Tamil Nadu	550	0.01	14.35	0.03	16.94	166	30.2	52	9.5	37	6.7	161	29.3	77	14.0	57	10.4	255	46	295	54	0	0
26	Telangana	560	0.01	13.6	0.01	17.93	165	29.5	29	5.2	11	2.0	162	28.9	86	15.4	107	19.1	205	37	355	63	0	0
27	Tripura	21	0.01	0.82	0.1	5.42	14	66.7	0	0.0	0	0.0	6	28.6	0	0.0	1	4.8	14	67	7	33	0	0
28	Uttar	734	0.01	13.75	0.02	10.89	251	34.2	28	3.8	10	1.4	347	47.3	75	10.2	23	3.1	289	39	445	61	0	0
	Pradesh																							
29	Uttarakhand	41	0.04	8.64	0.03	8.08	23	56.1	2	4.9	1	2.4	10	24.4	1	2.4	4	9.8	26	63	15	37	0	0
30	West Bengal	702	0.01	8.72	0	14.27	165	23.5	27	3.8	8	1.1	1.1 351 50.0 81 11.5 68 9.7					9.7	200	28	500	71	2	0
	Total	14,387					4,233	29.4	595	4.1	287	2.0	6376	44.3	1,716	11.9	1,168	8.1	5,115	36	9,260	64.4	12	0

Annexure 2.6 (Refer para 2.9)

Details of posts for which amended RRs not finalized

Sl. No.	Post	Date of sending the draft RRs to
		Ministry
1.	Chairman	06.04.2016
2.	Member	19.04.2017
3.	Regional Director (Scientific)	24.04.2017
4.	Group A (Scientific)	04.01.2017
5.	Artist	04.09.2017
6.	Assistant Chemist	06.04.2016
7.	Office Surveyor	06.04.2016
8.	Sr. Technical Assistant (Hydrometeorologist)	30.06.2017
9.	Surveyor	22.09.2017
10.	Draftsman	20.09.2017
11.	Photographer Grade II	21.09.2017
12.	Library and Information Officer	14.09.2016
13.	Sr. Private Secretary	24.11.2016

Annexure 3.1 (Refer para 3.1)

Mechanism for grant of NOC/ permission for Ground Water Extraction in 13 Self-Regulated States/UTs

Andhra Pradesh

In the year 2002, the Government of Andhra Pradesh (GoAP) had enacted the Andhra Pradesh Water Land & Trees Act (the Act). As required under the Act, GoAP constituted (2002) the AP Water Land & Trees Authority (APWALTA). As per the Act, the functions of the Authority, inter alia, were to (a) promote water conservation, (b) regulate exploitation of ground and surface water, and (c) advise Government on the Legislative and administrative measure to be taken for conservation of natural resources, etc.

The Ground Water & Water Audit (GW&WAD) Department acts as the technical agency in the matters relating to assessment, monitoring and management of Ground Water in the State and also grants permissions for drawl of Ground Water for industrial units. These permissions were termed as feasibility reports. However, APWALTA stated (October 2018) that it is unaware of the feasibility reports issued by GW&WAD.

Chandigarh

Chandigarh Administration notified "the Chandigarh Water Supply Bye-laws, 2011". The Act ibid was amended in May 2016. There was no separate dedicated Department/ Ground Water Management Cell under Chandigarh Administration/Municipal Corporation. In U.T Chandigarh three government agencies issued permission letter/NOC in respect of withdrawal of Ground Water. Municipal Corporation Chandigarh issued permission letters in respect of Urban areas, Chandigarh Engineering Department (Chandigarh Administration) issued permission letter in respect of Rural areas and Land Acquisition Officer issued permission letter in respect of irrigation purposes.

Delhi

Government of National Capital Territory of Delhi (GNCTD), Department of Environment has notified (July 2010) all the districts in National Capital Territory of Delhi as notified area for Ground Water Regulation and Management vide Notification issued under Section 5 of the Environment (Protection) Act 1986.

Directions in said notification provided that if any person, group, authority, association or institution, intended to draw Ground Water through bore well or tube well (both new as well as existing and drawing Ground Water without permission of CGWA) for domestic, commercial, agricultural and/ or industrial uses, he should take prior permission from 'Competent Authority' (i.e. Delhi Jal Board or New Delhi Municipal Corporation as the case may be). Such permission should be obtained through submission of an application to Zonal offices of the Competent Authority in the form specified by the Competent Authority. The notification also constituted Advisory Committee in all districts of Delhi under chairmanship of the Deputy Commissioner (Revenue) of concerned district with the representatives of Delhi Jal Board, Irrigation and Flood Control Department, Environment Department, CGWA and a prominent NGO in the area for Ground Water regulation. The cases for permission should be recommended by the Executive Engineer of the Competent Authority to the Advisory Committee based on ground facts. The cases recommended by the Advisory Committee should be forwarded to the Competent Authority for grant of permission.

Goa

In exercise of the powers conferred by Section 3 of the Goa Ground Water Regulation Act, 2002, the Government constituted (March 2003) 'Goa Ground Water Cell' to implement and to carry out the purpose of the Act. Goa Ground Water Cell functions under the aegis of Water Resource Department (WRD). The Chief Engineer (WRD) is the Ex-Officio Chairman of the Goa Ground Water Cell. The work relating to regulation of the

Ground Water in the State is entrusted to Executive Engineers of two Divisions of the WRD, who are designated as Ground Water Officer (GWO), for North and South Goa and are authorised to issue No Objection Certificate (NOCs) to the Ground Water Consumers.

The application for permission/ registration is received by the respective sub division offices under the jurisdiction of Ex Eng. WRD (Ground Water Officer) in the two districts of Goa. The application is scrutinized and site inspection carried out by the Asst Engineer of the respective Sub division. The detailed report is submitted to the respective Ground Water Officers (North & South. Reports received from Sub Division office are split up as per category and registration of existing open/bore well for domestic/ agriculture well are done at division level. Registration of tankers is issued at division level, registration of existing open/bore well for commercial purpose ie Industry, Infrastructure, Hotel and Commercial is forwarded to Goa Ground Water Cell board for approval. NOC for sinking open well for domestic/agriculture is issued at division level and for commercial purpose to GGWC board for approval.

Himachal Pradesh

a)The applicant seeking NOC has to apply in prescribed form along with required fees and other documents like revenue papers, site plan, memorandum of company, lease deed, HP Pollution Control Board permission, Industries NOC etc (b) site verification/other recommendation of the Groundwater Organization Una (c) HPSGWA issue instructions to concerned Executive Engineers and Gram Panchayats/Municipal Committees whose jurisdiction the area of NOC fall, for issuing public notice for finding if there is any objection n the local people with regard to grant of permit.(d) the Sub Committee of HPSGWA in its meeting discuss all the aspects and recommendations made regarding issuing of NOC.

Jammu & Kashmir

The application for grant of Registration Certificate (RC) for installation of bore/tube well for extraction of Ground Water is received in the office of the Chief Engineer PHE Department. The Chief Engineer forwards it to the Superintending Engineer (SE), Hydraulic & Mechanical Circle with direction to submit a detailed report along with comments and recommendations. The SE Hydraulic and SE Mechanical on receipt of the report and recommendations from the respective Civil and Mechanical Division re-submit the case along with its report and recommendations to the Chief Engineer PHE Department. On receipt of the report and recommendations the Chief Engineer either rejects or grants RC to the user for extraction and exploitation of Ground Water subject to certain condition for which compliance is to be ensured by the Divisional Head (Executive Engineer) of the respective division. Further, the raising of demand and recovery of the water usage charges from the licensee is also among the responsibilities of the Executive Engineer.

Karnataka

The Karnataka Ground Water Authority receives and evaluates the project proposals for Ground Water clearances. On receipt of the proposals for NOC to extract and use of groundwater, are referred to the District Groundwater Committee. The proposal along with the recommendations of the District Ground Water Committee will be placed before the State Level Technical Committee for further decisions regarding issuance of NOC by KGA.

Kerala

The State enacted Kerala Ground Water (Control and Regulation) Act, 2002 and relevant Rules. As per Section 7 of the Act, SGWA is the authority to issue permit/NOC. In Notified areas⁷⁹, conditional permit is being issued for domestic purpose limited to 1000L/Day by District Level Evaluation Committee (DLEC). Though Infrastructure projects, Industrial projects etc., also come under the purview of SGWA, the proposals for packaged drinking water projects alone were received till March 2018 and recommended to SGWA for granting NOC.

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⁷⁹ Kerala SGWA has notified five blocks.

Lakshadweep

The Lakshadweep Ground Water (Development and Control) Regulation, 2001 was notified in August 2001 with the intention of developing and controlling extraction of Ground Water in UT of Lakshadweep. Sub section (1) of Section 3 of the Regulation stipulates that, a State level Ground Water Authority has to be constituted for Lakshadweep islands, which will advise the UTL Administration for notifying any island for the Ground Water Regulation and Management and issue permit for extraction of Ground Water. However, no such Ground Water Authority has been constituted in UT of Lakshadweep till date (August 2018) and therefore no island/area has been notified in Lakshadweep. No mechanism has been put in place for grant of NoC in Lakshadweep, as no authority was constituted and no guidelines were framed by LPWD. No application for NoC has been received so far.

Puducherry

Drinking water for individual households is supplied through public water supply system maintained by PWD. As per Government order issued in February 2005, PGWA issues permits to PWD for Ground Water extraction for supply of drinking water to individual households in UTP on priority basis. As per section 8 of the Act, 2002, all wells sunk in the UTP have to be registered including the non-notified areas and renewed every two years. Any user of Ground Water desiring to sink a well for any purpose and for registration of well sunk and for renewal, shall apply to the PGWA in a specified form. PGWA will make such inspection and inquiries to satisfy that there is no objection to grant such permit to sink a well. Permit is then issued by PGWA to the applicant with such condition as required. Applications seeking NOC for industrial and non-agricultural purposes received in SGWU&SC are placed before the Regional Committee constituted (July 2010) by GoP with Director of Agriculture as Chairman, Hydrogeologist, SGWU&SC, Puducherry as Member Secretary and five official members for evaluation. The recommendations of the Committee are forwarded to PGWA for issuance of NOC to the applicants.

Tamil Nadu

Processing of applications by the E.E, PWD-Ground Water Division and should send the field investigation report to S.E of concerned circle. Scrutiny of Report by the S.E and the report with the remarks to be forwarded to CE's Office. Decision on Field Report at C.E office and Post Approval Action Plan.

Telangana

WALTA Authority (Authority constituted under State Water, Land and Tree Act, 2002) in the State is the empowered for granting NOC/Permission in respect of drinking and agricultural bore wells. At Mandal level, MROs and at District level, District Collectors are WALTA authority. The NOC/Permission for drilling agriculture bore well is granted by concerned MRO (Mandal Authority), based on the feasibility given by SGWD. In respect of Industries, the power to grant NOC has been delegated to Ground Water Department (2005).

West Bengal

As per the West Bengal Ground Water Resource (Management Control & Regulation) Act 2005, any user desiring to sink a well/tube well for any purpose, excepting tube well fitted with hand-pump or a well from which extraction or use made without the help of any mechanical or electrical device, have to make an application for permit to extract Ground Water, to the concerned State/District/Corporation level authority, as the case may be.

Annexure 3.2 (Refer para 3.4)

State-wise details of NOC pending and renewal

	Inforr	nation relating to	Pendency	in grant o	of NOC as o	on 31.03.20)19	
SI. No.	State/UT		Nui	mber of P	ending Ap	plications		
		Delay up to 31/03/2019	Less than 30 days	31 to 90 days	91 to 181 days	181 to 365 days	More than 1 to 3 year	More than 3 years
1	Andaman and Nicobar islands	13	0	0	13	0	0	0
2	Assam	12	0	0	1	9	2	0
3	Bihar	89	0	0	9	33	47	0
4	Chhattisgarh	863	0	0	259	568	36	0
5	Dadra and Nagar Haveli	27	0	0	8	13	6	0
6	Daman and Diu	11	0	0	0	5	6	0
7	Gujarat	1,978	0	0	247	598	1,133	0
8	Haryana	435	0	0	98	160	177	0
9	Jharkhand	80	0	0	13	49	18	0
10	Madhya Pradesh	248	0	0	39	127	82	0
11	Maharashtra	390	0	0	62	171	157	0
12	Manipur	3	0	0	1	2	0	0
13	Odisha	161	0	0	68	61	32	0
14	Punjab	1,144	0	0	176	328	640	0
15	Rajasthan	4,319	0	0	866	2,383	1,070	0
16	Sikkim	7	0	0	3	3	1	0
17	Tripura	1	0	0	0	1	0	0
18	Uttar Pradesh	552	0	0	256	164	132	0
19	Uttarakhand	425	0	0	64	80	281	0
	Total	10,758	0	0	2,183	4,755	3,820	0

	Informati	ion relating to F	Pendency in gra	nt of renev	val of NC	C as on 31	st March 201	9
SI. No.	State/UTs			Num	ber of Ap	plications	Pending	
				Del	ay up to	31st Marc	h 2019	
		Delay up to	Less than 30	31 to	91 to	181 to	More than	More than
		31/03/2019	days	90 days	180	365	one year	three years
					days	days	to three	
							years	
1	A & N	0	0	0	0	0	0	0
	Islands							
2	Arunachal							
	Pradesh			No	t availab	le		
3	Assam							
4	Bihar			No	t availab	ما		
5	Chhattisgarh			110	avallab	ic .		
6	Dadra &							
	Nagar Haveli			No	t availab	ما		
7	Daman &			INO	t availab	ic		
	Diu							
8	Gujarat			No	t availab	le		
9	Haryana	21	1	5	3	2	9	1
10	Jharkhand							
11	Madhya	16	1	6	4	2	3	0
	Pradesh							
12	Maharashtra	15	7	2	3	2	1	0
13	Manipur							
14	Meghalaya			No	t availab	le		
15	Mizoram			110	t a vanab			
16	Nagaland							
17	Odisha							
18	Punjab	58	2	10	13	14	19	
19	Rajasthan	34	0	1	2	5	24	2
20	Sikkim	0	0	0	0	0	0	0
21	Tripura							
22	Uttar			No	t availab	le		
	Pradesh							
23	Uttarakhand				t availab			
	TOTAL	144	11	24	25	25	56	3

Annexure 3.3 (Refer para 3.10.1)

Violations of conditions of NOCs

(i) Number of Tube Wells

Name of	the State/UT	Number of Sampled projects	Number of Sampled Projects where condition was specified	Number of Sampled Projects in which Tube well, Bore well, Dug well were constructed in excess of the number prescribed in NOC	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects for which compliance could not be ascertained in Audit (Partially)	as specified Remarks, if any
	A a ala al Dura da ala	<u> </u>		NOTIFIED AREA		0	<u> </u>
1.	Arunachal Pradesh	6	6	0	6	0	
2. 3.	Assam Bihar	50 42	50 41	0 4	45 36	5 1	5 units not constructed any bore
				_		_	well
4.	Chhattisgarh	50	50	2	48	0	
5.	Dadra & Nagar Haveli	3	3	0	3	0	
6.	Daman & Diu	0	0	0	0	0	0
7.	Gujarat	42	42	3	38	1	One project was not completed.
8.	Haryana	35	35	6	25	4	
9.	Jharkhand	20	16	1	9	6	7 projects yet to be started
	Madhya Pradesh	50	47	12	30	5	
	Maharashtra	50	50	0	50	0	
	Manipur	3	3	0	3	0	
14.	Meghalaya Nagaland	3	3	0 1	1	1	M/s Esther Beverages were abstracting Ground Water without obtaining renewal of NOC. Nagaland State Dairy Cooperative Federation Ltd. Yet to complete the boring well. Hence could not be ascertained.
	Orissa	50	49	8	38	3	Three projects not yet started.
	Punjab	50	50	4	44	2	
	Rajasthan	44	40	1	39	0	
	Tripura Uttar Pradesh	13 40	13 40	10	9 26	4	One project was sealed and 3 projects were not operated.
20.	Uttarakhand	40	40	0	39	1	One project was not yet operational
	TOTAL	595	582	54	493	35	

Name of	the State/UT	Number of	Number of	Number of	Number	h condition was	as specified Remarks, if any
		Sampled projects	Sampled Projects where condition was specified	Sampled Projects in which Tube well, Bore well, Dug well were constructed in excess of the number prescribed in NOC	of Sampled Projects that complied with the NOC Condition	Sampled Projects for which compliance could not be ascertained in Audit (Partially)	
	<u> </u>	-		TIFIED AREAS	_	_	l
1.	Diu & Daman UT	0	0	0	0	0	
2.	Gujarat	0	0	0	0	0	
3.	Haryana	30	30	3	26	1	
4.	Madhya Pradesh	48	48	0	45	3	
5.	Punjab	36	29	3	22	4	
6. 7.	Rajasthan Uttar Pradesh	95 0	95 0	0	95 0	0	
7. 8.	Tamil Nadu	2	2	1	1	0	
9.	West Bengal	10	10	0	8	2	One project was not constructed, One project not found during site visit
TOTAL		221	214	7	197	10	
			SELF RE	GULATED ARE	AS		
1.	Andhra Pradesh	42	37	1	18	18	
2.	Chandigarh(through Govt. Orders)	14	0	0	0	0	-
3.	Delhi	60	60	0	42	18	12 tube wells out of 60 sampled project were not constructed. 06 projects were closed.
4.	Goa	40	40	0	40	0	
5.	Himachal Pradesh	40	40	26	0	14	
6.	Jammu & Kashmir	40	40	1	36	3	
7.	Karnataka	60	60	0	53	7	
8.	Kerala	40	40	7	24	9	Construction of wells do not require NOC. SGWA is issuing NOC for energized extraction of water from wells already constructed. Some projects are extracting water using additional pumps without Flow meter.
9.	Lakshadweep	0	0	0	0	0	
	Puducherry (PGWA)	6	6	0	6	0	
	Tamil Nadu (through Govt. Orders)	50	50	5	45	0	
	Telangana	40	34	3	22	9	
13.	West Bengal	40	35	0	31	4	Project was not started in four

Name of the State/UT	Number	Number	Out of project	ts where suc	ch condition wa	as specified
	of Sampled projects	of Sampled Projects where condition was specified	Number of Sampled Projects in which Tube well, Bore well, Dug well were constructed in excess of the number prescribed in NOC	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects for which compliance could not be ascertained in Audit (Partially)	Remarks, if any
						projects; 5 (permits were for dewatering of mining)
TOTAL	472	442	43	317	82	
Grand Total	1,288	1,238	104	1,007	127	

(ii) Installation of Water Meter

Name of	the State/UT	Number	Number	Out of proje	cts where su	ch condition w	as specified
		of Sampled projects	of Sampled Projects where condition was specified	Number of Sampled Projects in which Water meters were not installed as prescribed in NOC	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects for which compliance could not be ascertained in Audit	Remarks, if any
			NON-I	NOTIFIED ARE	AS		
1.	Arunachal Pradesh	6	5	4	1	0	
2.	Assam	50	50	24	25	1	
3.	Bihar	42	42	13	28	1	5 units not constructed any borewell
4.	Chhattisgarh	50	50	24	26	0	
5.	Dadra & Nagar Haveli	3	3	0	3	0	
6.	Daman & Diu	0	0	0	0	0	
7.	Gujarat	42	42	6	28	8	One project was not completed.
8.	Haryana	35	35	16	10	9	
9.	Jharkhand	20	16	4	6	6	7 projects yet to be started
	Madhya Pradesh	50	50	27	15	8	
11.		50	50	21	27	2	
	Manipur	3	3	0	3	0	
	Meghalaya	4	4	3	1	0	
	Nagaland Orissa	3 50	3 49	3 29	0 17	3	Three projects not yet started
16.	Punjab	50	50	7	38	5	
17.		44	40	14	26	0	
18.	Tripura	13	13	8	3	2	

Name of	the State/UT	Number	Number	Out of proje	cts where su	ch condition w	as specified
Name of	the state, or	of	of	Number of	Number	Number of	Remarks, if any
		Sampled	Sampled	Sampled	of	Sampled	remarks, if any
		projects	Projects	Projects in	Sampled	Projects for	
		p. ojecto	where	which	Projects	which	
			condition	Water	that	compliance	
			was	meters	complied	could not	
			specified	were not	with the	be	
			оросинов	installed	NOC	ascertained	
				as	Condition	in Audit	
				prescribed	0011011011		
				in NOC			
19.	Uttar Pradesh	40	40	13	23	4	One project sealed
							and 3 were not
							operational
20.	Uttarakhand	40	40	1	38	1	One project was not
	o ccar anniana			_		_	yet operational
	TOTAL	595	585	217	318	50	,
			NO	TIFIED AREAS			
1.	Diu & Daman UT	0	0	0	0	0	
2.	Gujarat	0	0	0	0	0	
3.	Haryana	30	28	21	5	2	
4.	Madhya Pradesh	48	0	0	0	0	
5.	Punjab	36	31	8	19	4	
6.	Rajasthan	95	11	11	0	0	
7.	Uttar Pradesh	0	0	0	0	0	
8.	Tamil Nadu	2	2	2	0	0	
9.	West Bengal	10	10	7	1	2	One project was not
J.	West beligai	10	10	,	_	2	constructed, One
							project not found
							during site visit
TOTAL		221	82	49	25	8	a a m.g orec viole
			SELF R	EGUATED STA	TES		
1.	Andhra Pradesh	42	19	1	0	18	
2.	Chandigarh	14	0	0	0	0	-
	(through Govt.						
	Orders)						
3.	Delhi	60	22	13	6	03	3 tube wells
							closed/abandoned in
							due course
4.	Goa	40	3	0	3	0	
5.	Himachal Pradesh	40	40	15	11	14	
6.	Jammu & Kashmir	40	40	20	17	3	
7.	Karnataka	60	40	30	10	0	
8.	Kerala	40	40	1	19	20	One project not
							installed water meter
							in the well permitted
							as per NOC. Two
							projects not installed
							water meter as
							operation was not
							started. Seven
							projects constructed
							additional wells and
							11 projects installed
							additional pumps in
							the well-constructed
9.	Lakshadwoon	0	0	0	0	0	as per NOC.
	Lakshadweep Puducherry	6	4	0	3	1	
10.	(PGWA)	J	"		3	1	
	(· O v v r l)						

Name of the State/UT	Number	Number	Out of proje	cts where su	ch condition w	as specified
	of Sampled projects	of Sampled Projects where condition was specified	Number of Sampled Projects in which Water meters were not installed as prescribed in NOC	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects for which compliance could not be ascertained in Audit	Remarks, if any
11. Tamil Nadu (through Govt. Orders)	50	50	13	37	0	Out of 37, 3 units not maintained flow meter readings, 19 initially maintained.
12. Telangana	40	2	0	1	1	
13. West Bengal	40	40	19	13	8	In 8 projects the construction and installation of tube wells and sump well not started
TOTAL	472	300	112	120	68	
Grand Total	1,288	967	378	463	126	

(iii) Installation of Piezometer

Naı	me of the State/UT	Number	Number	Out of project	cts where suc	ch condition wa	as specified
		of	of	Number of	Number	Number of	Remarks, if any
		Sampled	Sampled	Sampled	of	Sampled	
		projects	Projects	Projects,	Sampled	Projects,	
			where	that did	Projects,	that	
			condition	not install	that	Compliance	
			was	Piezometer	Comply	could not	
			specified	as	with the	be	
				prescribed	NOC	ascertained	
				in NOC	Condition	in Audit	
				OTIFIED AREAS			
1.	Arunachal Pradesh	6	6	6	0	0	
2.	Assam	50	50	29	20	1	
3.	Bihar	42	39	23	15	1	
4.	Chhattisgarh	50	48	23	25	0	
5.	Dadra & Nagar Haveli	3	3	2	1	0	
6.	Daman & Diu	0	0	0	0	0	
7.	Gujarat	42	42	17	19	6	One project was not completed.
8.	Haryana	35	35	18	13	4	
9.	Jharkhand	20	20	10	3	7	7 projects yet to be started
10.	Madhya Pradesh	50	50	16	13	21	
11.	Maharashtra	50	50	24	26	0	
12.	Manipur	3	3	1	2	0	
13.	Meghalaya	4	4	3	1	0	
14.	Nagaland	3	2	2	0	0	Installation of piezometer was not accorded in the NOC in respect of Power Grid Corporation of India Ltd. (PGCIL), Mokokchung as the NOC was approved for abstraction of

Name of the State/UT	Number	Number	Out of project	cts where suc	h condition wa	as specified
	of Sampled projects	of Sampled Projects where condition was specified	Number of Sampled Projects, that did not install Piezometer as prescribed in NOC	Number of Sampled Projects, that Comply with the NOC Condition	Number of Sampled Projects, that Compliance could not be ascertained in Audit	Remarks, if any
15. Orissa	50	38	21	14	3	for residential use. Three projects not
	_	_	_	_	_	yet started
16. Punjab	50	50	24	24	2	
17. Rajasthan18. Tripura	44 13	43 13	27 10	16 1	0	
19. Uttar Pradesh	40	38	14	20	4	One project sealed and 3 were not operational
20. Uttarakhand	40	33	18	15	0	Out of 18 projects which did not comply the NOC condition, 6 projects had installed less number of piezometers as compared to number mentioned in NOC. 11 projects had not installed any piezometer and one project was not yet operational.
TOTAL	595	567	288	228	51	
			IFIED AREAS	1		
1. Diu & Daman UT	0	0	0	0	0	
2. Gujarat	0	0	0	0	0	
3. Haryana	30	3	2	0	0	
4. Madhya Pradesh5. Punjab	48 36	0 10	9	0	0	
6. Rajasthan	95	0	0	0	0	
7. Uttar Pradesh	0	0	0	0	0	
8. Tamil Nadu	2	2	2	0	0	
9. West Bengal	10	0	0	0	0	No provision in the permit for the piezometer
TOTAL	221	15	13	1	1	
1 Augling Doodes	42		ULATED STATE		10	
 Andhra Pradesh Chandigarh(through Govt. Orders) 	14	36	0	5 0	18 0	-
3. Delhi	60	0	0	0	0	
4. Goa	40	0	0	0	0	
5. Himachal Pradesh	40	0	0	0	0	
6. Jammu & Kashmir	40	0	0	0	0	
7. Karnataka	60	5	5	0	0	
8. Kerala	40	0	0	0	0	Installation of Piezometer was not insisted in the NOC. Hence not installed in any project.

Name of the State/UT	Number	Number	Out of project	cts where suc	ch condition wa	as specified
	of Sampled projects	of Sampled Projects where condition was specified	Number of Sampled Projects, that did not install Piezometer as prescribed in NOC	Number of Sampled Projects, that Comply with the NOC Condition	Number of Sampled Projects, that Compliance could not be ascertained in Audit	Remarks, if any
9. Lakshadweep	0	0	0	0	0	
10. Puducherry (PGWA)	6	0	0	0	0	
11. Tamil Nadu (through Govt. Orders)	50	50	15	35	0	Out of 35, 14 units handed over belatedly
12. Telangana	40	36	17	1	18	
13. West Bengal	40	0	0	0	0	As per State Ground Water Act, there was no provision of piezometer in the permits
TOTAL	472	127	50	41	36	
Grand Total	1,288	709	351	270	88	

(iv) Installation of Automatic Water Level Recorder

Naı	me of the State/ UT	Number	Number of	Out of project	s where such	condition was	specified
		of	Sampled	Number of	Number	Number of	Remarks, if any
		Sampled	Projects	Sampled	of	Sampled	
		projects	where	Projects in	Sampled	Projects in	
			condition	which	Projects	which	
			was	AWLR was	that	compliance	
			specified	not	complied	could not be	
				installed	with the	ascertained	
					NOC	in Audit	
			NON N		Condition		
1	Arunachal Dradach	6		OTIFIED AREAS	0	0	
1.	Arunachal Pradesh	6	1	1	0	0	
2. 3.	Assam Bihar	50 42	24 22	19 10	4 11	1	
_	-	50	28	17	11	0	
4.	Chhattisgarh	3	-		2	-	
5. 6.	Dadra & Nagar Haveli Daman & Diu	0	3 0	0	0	0	
	1 1 1 1	42	17	10			Sugala Limestone
7.	Gujarat	42	17	10	4	3	Sugala Limestone Mines, (Six months was not completed.
8.	Haryana	35	26	19	3	4	
9.	Jharkhand	20	14	5	2	7	7 projects yet to be started
10.	Madhya Pradesh	50	30	24	6	0	
11.	Maharashtra	50	26	19	7	0	
12.	•	3	0	0	0	0	
13.	Meghalaya	4	0	0	0	0	
14.	Nagaland	3	2	2	0	0	Installation of AWLR was not specified in the NOC of PGCIL
15.	Orissa	50	24	18	6	0	
16.	Punjab	50	22	15	5	2	
17.	Rajasthan	44	18	13	5	0	
18.	Tripura	13	0	0	0	0	

Name of the State/ UT Number Number of Out of projects where such condition was specified							
		of Sampled projects	Sampled Projects where condition was specified	Number of Sampled Projects in which AWLR was not installed	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	Remarks, if any
19. Utta	r Pradesh	40	26	8	14	4	One project sealed and 3 were not operational
20. Utta	rakhand	40	23	13	10	0	Out of 13 projects which did not comply the NOC conditions, four projects had installed less number of AWLR as compared to number mentioned in NOC, eight project had not installed any AWLR and one project was not yet operational.
TOT	AL	595	306	194	90	22	·
			NOTI	FIED AREAS			
1.	Diu & Daman UT	0	0	0	0	0	
2.	Gujarat	0	0	0	0	0	
3.	Haryana	30	3	2	0	1	
4.	Madhya Pradesh	48	0	0	0	0	
5.	Punjab	36	7	7	0	0	
6.	Rajasthan	95	0	0	0	0	
7.	Uttar Pradesh	0	0	0	0	0	
8.	Tamil Nadu	2	0	0	0	0	
9.	West Bengal	10	0	0	0	0	No provision
TOTAL		221	10	9	0	1	
			SELF REG	ULATED STATES	S		
1.	Andhra Pradesh	42	26	7	1	18	
2.	Chandigarh(through Govt. Orders)	14	0	0	0	0	-
3.	Delhi	60	0	0	0	0	
4.	Goa	40	0	0	0	0	
5.	Himachal Pradesh	40	0	0	0	0	
6.	Jammu & Kashmir	40	0	0	0	0	
7.	Karnataka	60	0	0	0	0	
8.	Kerala	40	0	0	0	0	Installation of AWLR was not insisted in the NOC. Hence not installed in any project.
9.	Lakshadweep	0	0	0	0	0	
10.	Puducherry (PGWA)	6	0	0	0	0	
	Tamil Nadu (through Govt. Orders)	50	0	0	0	0	
12.	Telangana	40	0	0	0	0	
	West Bengal	40	0	0	0	0	As per State Ground
	o.						Water Act, there

Name of the State/ UT	Number	Number of	Out of project	ts where such	condition was	specified
	of	Sampled	Number of	Number	Number of	Remarks, if any
	Sampled	Projects	Sampled	of	Sampled	
	projects	where	Projects in	Sampled	Projects in	
		condition	which	Projects	which	
		was	AWLR was	that	compliance	
		specified	not	complied	could not be	
			installed	with the	ascertained	
				NOC	in Audit	
				Condition		
						was no provision in
						the permits
TOTAL	472	26	7	1	18	
Grand Total	1,288	342	210	91	41	

(v) Monitoring of Pre and Post Monsoon Ground Water Quality

Nar	me of the State/ UT	Number	Number of	Out of projects where such condition was specified				
IVai	ne of the state, of	of	Sampled	Number of	Number	Number of	Remarks, if any	
		Sampled	Projects	Sampled	of	Sampled	nemarks, if any	
		projects	where	Projects in		Projects in		
		projects	condition		Sampled			
				which	Projects	which		
			was	Ground	that	compliance		
			specified	Water	complied	could not be		
				quality was	with the	ascertained		
				not	NOC	in Audit		
				monitored	Condition			
				twice in a				
				year during				
				pre-				
				monsoon				
				and post				
				monsoon				
				periods				
		_		TIFIED AREAS	_	_		
1.	Arunachal Pradesh	6	6	6	0	0		
2.	Assam	50 42	50 41	24 22	25 17	2		
3. 4.	Bihar Chhattisgarh	50	50	23	27	0		
5.		3	3	1	27	0		
6.	Dadra & Nagar Haveli Daman & Diu	0	0	0	0	0		
7.	Gujarat	42	42	14	5	23	1. Sugala Limestone	
7.	Gujarat	42	42	14	5	23	-	
							Mines, (Six months was not completed)	
							2. Raksha Shakti	
							University, (Unit	
8.	Haryana	35	35	26	5	4	operation)	
9.	Jharkhand	20	20	6	7	7	7 projects yet to be	
- '		_•	0	_	•	-	started	
10.	Madhya Pradesh	50	50	22	28	0		
11.	Maharashtra	50	50	7	31	12		
	Manipur	3	3	1	2	0		
	Meghalaya	4	4	4	0	0		
14.	Nagaland	3	2	2	0	0	Monitoring of	
							quality data was not	
							conditioned in the	
							NOC in respect of	
							PGCIL	
15.	Orissa	50	40	20	17	3	Three projects not	
							started.	

Name of	the State/ UT	Number	Number of	Out of projects where such condition was specified				
		of Sampled projects	Sampled Projects where condition was specified	Number of Sampled Projects in which Ground Water quality was not monitored twice in a year during pre- monsoon and post monsoon periods	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	Remarks, if any	
16. Punj	ab	50	50	26	22	2		
17. Raja:		44	44	21	23	0		
18. Tripu		13	13	11	0	2		
	r Pradesh	40	40	8	28	4	One project sealed and 3 were not operational	
20. Utta		40	34	11	23	0	Out of 11 projects which did not comply the NOC conditions, eight projects were monitoring quality data of water once in year, two were not monitoring quality and one project was not yet operational.	
TOTA	AL	595	577	255	262	60		
1.	Andhra Pradesh	42	SELF REG	ULATED AREAS 6	12	19		
2.	Chandigarh(through Govt. Orders)	14	0	0	0	0	-	
3.	Delhi	60	0	0	0	0		
4.	Goa	40	0	0	0	0		
5.	Himachal Pradesh	40	0	0	0	0		
6. 7.	Jammu & Kashmir Karnataka	40 60	0 5	0 5	0	0		
8.	Kerala	40	0	0	0	0	Monitoring of quality data was not insisted in the NOC. Hence not monitored by any project.	
9.	Lakshadweep	0	0	0	0	0		
	Puducherry (PGWA)	6	0	0	0	0		
11.	Tamil Nadu (through Govt. Orders)	50	0	0	0	0		
12.	Telangana	40	40	19	1	20		
	West Bengal	40	0	0	0	0	As per State Ground Water Act, there was no provision in the permits	

Name of the State/ UT	Number	Number of	Out of project	s where such	condition was	specified
	of	Sampled	Number of	Number	Number of	Remarks, if any
	Sampled	Projects	Sampled	of	Sampled	
	projects	where	Projects in	Sampled	Projects in	
		condition	which	Projects	which	
		was	Ground	that	compliance	
		specified	Water	complied	could not be	
			quality was	with the	ascertained	
			not	NOC	in Audit	
			monitored	Condition		
			twice in a			
			year during			
			pre-			
			monsoon			
			and post			
			monsoon			
			periods			
TOTAL	472	82	30	13	39	
Grand Total	1,067	659	285	275	99	

(vi) Monitoring of water level data of wells

				0.4.5			
	me of the State/ UT	Number of Sampled projects	Number of Sampled Projects where condition was specified	Out of project Number of Sampled Projects in which Ground Water level data was not monitored through	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	specified Remarks, if any
			NON NO	piezometer			
4	Arunachal Pradesh	6	6	6	0	0	
1. 2.	Assam	50	50	32	17	0	
3.	Bihar	42	39	25	12	2	
4.	Chhattisgarh	50	50	24	26	0	
5.	Dadra & Nagar Haveli	3	3	0	3	0	
6.	Daman & Diu	0	0	0	0	0	
7.	Gujarat	42	42	21	16	5	One project was not completed.
8.	Haryana	35	35	29	2	4	
9.	Jharkhand	20	20	8	5	7	7 projects yet to be started
	Madhya Pradesh	50	50	28	22	0	
11.		50	50	14	24	12	
	Manipur	3	3	2	1	0	
	Meghalaya	4	4	4	0	0	
14.		3	2	2	0	0	Monitoring of water level data was not conditioned in the NOC in respect of PGCIL
	Orissa	50	38	18	17	3	Three project not started
	Punjab	50	50	28	19	3	
	Rajasthan	44	44	25	19	0	
18.	Tripura	13	13	11	0	2	

Nam	e of the State/ UT	Number	Number of	Out of project	s where such	condition was	specified
		of Sampled projects	Sampled Projects where condition was specified	Number of Sampled Projects in which Ground Water level data was not monitored through piezometer	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	Remarks, if any
19.	Jttar Pradesh	40	38	14	20	4	One project sealed and 3 were not operational
20.	Jttarakhand	40	33	12	20	1	One project was not operational
-	ΓΟΤΑL	595	570	303	223	44	
			SELF REG	ULATED AREAS			
1.	Andhra Pradesh	42	23	2	3	18	
2.	Chandigarh(through Govt. Orders)	14	0	0	0	0	-
3.	Delhi	60	0	0	0	0	
4.	Goa	40	0	0	0	0	
5.	Himachal Pradesh	40	0	0	0	0	
6.	Jammu & Kashmir	40	0	0	0	0	
7.	Karnataka	60	5	5	0	0	
8.	Kerala	40	0	0	0	0	Monitoring of water Level data was not insisted in the NOC. Hence not monitored by any project.
9.	Lakshadweep	0	0	0	0	0	
10.	Puducherry (PGWA)	6	0	0	0	0	
11.	Tamil Nadu (through Govt. Orders)	50	50	5	30	15	
12.	Telangana	40	40	19	1	20	
13.	West Bengal	40	0	0	0	0	As per State Ground Water Act, there was no provision in the permits
TOT	AL .	472	118	31	34	53	
Gran	d Total	1,067	688	334	257	97	

(vii) Rain Water Harvesting Structures

Name of the State/ UT	Number	Number	Out of project	ts where such	condition was	specified
	of	of	Number of	Number	Number of	Remarks, if any
	Sampled	Sampled	Sampled	of	Sampled	
	projects	Projects	Projects in	Sampled	Projects in	
		where	which Rain	Projects	which	
		condition	Water	that	compliance	
		was	Harvesting	complied	could not be	
		specified	Structures	with the	ascertained	
			were not	NOC	in Audit	
			constructed	Condition		
			as			
			prescribed			
			in NOC			
			NOTIFIED AREA		l	
1. Arunachal Pradesh	6	6	4	2	0	
2. Assam	50	50	16	33	1	
3. Bihar	42	42	28	13	1	
4. Chhattisgarh	50	50	23	27	0	
5. Dadra & Nagar Haveli	3	3	2	1	0	
6. Daman & Diu	0	0	0	0	0	
7. Gujarat	42	35	6	18	11	
8. Haryana	35	35	23	8	4	7
9. Jharkhand	20	20	4	9	7	7 projects yet to be started
10. Madhya Pradesh	50	50	16	28	6	
11. Maharashtra	50	50	5	45	0	
12. Manipur	3	3	2	1	0	
13. Meghalaya14. Nagaland	3	3	4 1	0 2	0	M/s. Esther Beverages
						did not comply with the construction of water harvesting for artificial recharge since the issue of NOC.
15. Orissa	50	44	21	20	3	Three projects not started.
16. Punjab	50	39	8	18	13	
17. Rajasthan	44	44	15	29	0	
18. Tripura	13	13	7	4	2	
19. Uttar Pradesh	40	32	12	16	4	One project sealed and 3 were not operational
20. Uttarakhand	40	40	23	17	0	Out of 23 projects which did not comply the NOC condition, 13 projects complied partially and one was not yet operational
TOTAL	595	563	220	291	52	
4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			TIFIED AREAS			
1. Diu & Daman UT	0	0	0	0	0	
2. Gujarat	0	0	0	0	0	
3. Haryana	30	27	10	16	1	
4. Madhya Pradesh	48	48	43	2	3	
5. Punjab	36 95	35	16	10	9	
6. Rajasthan7. Uttar Pradesh	0	39 0	35 0	0	0	
8. Tamil Nadu	2	2	2	0	0	
o. Tallili Nadu	2	2	2	U	U	

Name of	the State/ UT	Number	Number	Out of project	s where such	condition was	specified
		of Sampled projects	of Sampled Projects where condition was specified	Number of Sampled Projects in which Rain Water Harvesting Structures were not constructed as prescribed in NOC	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	Remarks, if any
9.	West Bengal	10	0	0	0	0	In the permit, no provision of artificial recharge of GW. However, there is a provision of rooftop rain water harvesting
TOTAL		221	151	106	32	13	
_				EGULATED ARE		10	
1. 2.	Andhra Pradesh Chandigarh(through Govt. Orders)	42 14	35 3	7	3	18 0	-
3.	Delhi	60	23	7	13	3	
4.	Goa	40	0	0	0	0	
5.	Himachal Pradesh	40	40	20	6	14	
6.	Jammu & Kashmir	40	0	0	0	0	
7.	Karnataka	60	39	24	15	0	
8.	Kerala	40	0	21	19	0	Specific directions not given in NOC regarding AR. RWH not mentioned in any NOC. 19 Projects. (17 Projects constructed AR structures and 2 projects constructed RWH structure)
9.	Lakshadweep	0	0	0	0	0	
	Puducherry (PGWA)	6	3	0	2	1	
	Tamil Nadu (through Govt. Orders)	50	50	09	41	0	
	Telangana	40	40	15	5	20	
13.	West Bengal	40	0	0	0	0	No provision in the permit for Artificial recharge
TOTAL		472	273	103	114	56	
Grand To	otal	1,288	987	429	437	121	

(viii) Maintenance of rain water recharge structures

Name of the State/ UT	Number	Number of		cts where suc	h condition was	snecified
rume of the state, of	of	Sampled	Number of	Number	Number of	Remarks, if any
	Sampled	Projects	Sampled	of	Sampled	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	projects	where	Projects in	Sampled	Projects in	
		condition	which rain	Projects	which	
		was	water	that	compliance	
		specified	harvesting	complied	could not be	
			structures	with the	ascertained	
			were not	NOC	in Audit	
			maintained	Condition		
			properly			
			OTIFIED AREA		_	
1. Arunachal Pradesh	6	0	0	0	0	
2. Assam	50	50	10	23	17	
3. Bihar	42	42	28	13	1	
4. Chhattisgarh	50	50	23	27	0	
5. Dadra & Nagar Haveli	3	3	2	1	0	
6. Daman & Diu	0	0	0	0	0	
7. Gujarat	42	35	5	30	0	Sugala Limestone Mines, (Six months
						, ,
8. Haryana	35	35	23	8	4	was not completed.
 8. Haryana 9. Jharkhand 		13	23	4	7	7 projects yet to be
9. Jilarkilaliu	20	15	2	4	/	7 projects yet to be started
10. Madhya Pradesh	50	50	23	23	4	Starteu
11. Maharashtra	50	50	5	45	0	
12. Manipur	3	2	2	0	0	
13. Meghalaya	4	4	4	0	0	
14. Nagaland	3	0	0	0	0	Not conditioned in
14. Nagalallu	3	U	U	U	U	the NOC in respect of
						the three units.
15. Orissa	50	20	16	4	0	the three drifts.
16. Punjab	50	39	7	30	2	
17. Rajasthan	44	0	0	0	0	
18. Tripura	13	6	2	2	2	
19. Uttar Pradesh	40	20	11	5	4	One project sealed
13. Ottai i ladesii	40	20	11	3	7	and 3 were not
						operational
20. Uttarakhand	40	40	22	17	1	One project was not
					_	yet operational
TOTAL	595	459	185	232	42	,
	1	NOT	IFIED AREAS	1	l	
1. Diu & Daman UT	0	0	0	0	0	
2. Gujarat	0	0	0	0	0	
3. Haryana	30	27	16	10	1	
4. Madhya Pradesh	48	0	0	0	0	
5. Punjab	36	35	16	19	0	
6. Rajasthan	95	0	0	0	0	
7. Uttar Pradesh	0	0	0	0	0	
8. Tamil Nadu	2	2	2	0	0	
9. West Bengal	10	0	0	0	0	No provision
TOTAL	221	64	34	29	1	
		SELE DE	GULATED AREA	\ S		
1. Andhra Pradesh	42	35	JULATED AREA	9	25	
2. Chandigarh(through	14	0	0	0	0	-
Govt. Orders)	14	U	U	U	U	=
3. Delhi	60	0	0	0	0	
4. Goa	40	0	0	0	0	
5. Himachal Pradesh	40	0	0	0	0	
J. Hilliachai Frauesii	40	U	U	U	U	

Name of the State/ UT	Number	Number of	Out of project	ts where suc	h condition was	specified
	of Sampled projects	Sampled Projects where condition was specified	Number of Sampled Projects in which rain water harvesting structures were not maintained properly	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	Remarks, if any
6. Jammu & Kashmir	40	0	0	0	0	
7. Karnataka	60	0	0	0	0	
8. Kerala	40	0	0	0	0	No NOC condition on maintenance of AR and RWH. Not done by any project.
9. Lakshadweep	0	0	0	0	0	
10. Puducherry (PGWA)	6	0	0	0	0	
11. Tamil Nadu (through Govt. Orders)	50	0	0	0	0	
12. Telangana	40	0	0	0	0	
13. West Bengal	40	0	0	0	0	No provision in State GW Act.
TOTAL	472	35	1	9	25	
Grand Total	1,288	558	220	270	68	

(ix) Submission of Compliance Reports

Name of the State/ UTs	Number	Number	Out of project	ts where such	condition w	as specified
	of Sampled projects	of Sampled Projects where condition was specified	Number of Sampled Projects in which compliance reports were not submitted	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which complian ce could not be ascertain ed in Audit	Remarks, if any
		NON-I	NOTIFIED AREA	\S	ridait	
1. Arunachal Pradesh	6	6	6	0	0	
2. Assam	50	50	38	11	1	
3. Bihar	42	42	26	10	6	For 6 six units, one year not completed
4. Chhattisgarh	50	50	40	10	0	·
5. Dadra & Nagar Haveli	3	3	1	2	0	
6. Daman & Diu	0	0	0	0	0	
7. Gujarat	42	42	15	13	14	
8. Haryana	35	35	23	3	9	
9. Jharkhand	20	20	8	5	7	7 projects yet to be stated.
10. Madhya Pradesh	50	50	27	20	3	
11. Maharashtra	50	50	13	24	13	
12. Manipur	3	3	2	1	0	
13. Meghalaya	4	4	4	0	0	
14. Nagaland	3	3	3	0	0	Not submitted by the 3 units as of date.
15. Orissa	50	50	33	5	12	

Name of the State/ UTs	Number	Number	Out of project	cts where such	condition w	as specified
Training or and crause, 1915	of	of	Number of	Number of	Number	Remarks, if any
	Sampled	Sampled	Sampled	Sampled	of	,
	projects	Projects	Projects in	Projects	Sampled	
		where	which	that	Projects	
		condition	compliance	complied	in which	
		was	reports	with the	complian	
		specified	were not	NOC	ce could	
			submitted	Condition	not be	
					ascertain	
					ed in	
					Audit	
16. Punjab	50	50	6	18	26	
17. Rajasthan	44	44	30	11	3	
18. Tripura	13	13	11	0	2	
19. Uttar Pradesh	40	40	15	14	11	One project sealed and 3
						were not operational
20. Uttarakhand	40	23	7	16	0	17 projects did not
						complete one year of
						operation since the date
						of issue of NOC till date
						of site inspection. Out of
						seven projects which had
						not complied the NOC
						conditions, four projects
						had not submitted any
						compliance report, two
						projects had submitted
						less number of
						compliance report and
						one project was not yet
						operational.
						Renewal of NOC of 34
						projects was not due till
						date of site inspection.
TOTAL	595	578	308	163	107	
TOTAL	595		308 GULATED ARE		107	
TOTAL 1. Andhra Pradesh	595	SELF RE	GULATED ARE 7	AS 8	19	
 Andhra Pradesh Chandigarh(through 		SELF RI	GULATED ARE	AS		-
1. Andhra Pradesh	42	SELF RE	GULATED ARE 7	AS 8	19	-
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi 	42	SELF RE	GULATED ARE 7	AS 8	19	-
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa 	42 14	SELF RB 34 0	GULATED ARE 7 0	8 0	19 0	
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi 	42 14 60	SELF RE 34 0 0	7 0	8 0 0	19 0	
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa 	42 14 60 40	SELF RI 34 0 0	7 0 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0	
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh 	42 14 60 40 40	SELF RI 34 0 0 0 0 0	7 0 0 0 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0	
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir 	42 14 60 40 40 40	SELF RI 34 0 0 0 0 0 0 0 0	7 0 0 0 0 0 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0	No NOC condition.
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka 	42 14 60 40 40 40 60	SELF RI 34 0 0 0 0 0 0 0 35	7 0 0 0 0 0 0 0 0 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0	
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka 	42 14 60 40 40 40 60	SELF RI 34 0 0 0 0 0 0 0 35	7 0 0 0 0 0 0 0 0 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0	No NOC condition.
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala 	42 14 60 40 40 40 60 40	SELF RI 34 0 0 0 0 0 0 0 35 0	7 0 0 0 0 0 0 0 0 35	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0	No NOC condition.
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep 	42 14 60 40 40 40 60 40	SELF RI 34 0 0 0 0 0 0 0 0 35 0	7 0 0 0 0 0 0 0 0 35	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0	No NOC condition.
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) 	42 14 60 40 40 40 60 40 0 6	SELF RI 34 0 0 0 0 0 0 0 35 0 0 0	0 0 0 0 0 0 0 0 35 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0	No NOC condition.
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) 	42 14 60 40 40 40 60 40 0 6	SELF RI 34 0 0 0 0 0 0 0 35 0 0 0	0 0 0 0 0 0 0 0 35 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0	No NOC condition.
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) Telangana 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 0 50	7 0 0 0 0 0 0 0 0 35 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 3	19 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 50 39	0 0 0 0 0 0 0 0 35 0 0 47	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project Chemical quality of test
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) Telangana 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 50 39	0 0 0 0 0 0 0 0 35 0 0 47	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project Chemical quality of test report of GW was
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) Telangana 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 50 39	0 0 0 0 0 0 0 0 35 0 0 47	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project Chemical quality of test report of GW was required to be
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) Telangana 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 50 39	0 0 0 0 0 0 0 0 35 0 0 47	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project Chemical quality of test report of GW was required to be submitted to SWID
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) Telangana 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 50 39	0 0 0 0 0 0 0 0 35 0 0 47	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project Chemical quality of test report of GW was required to be submitted to SWID office. In 9 projects
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) Telangana 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 50 39	0 0 0 0 0 0 0 0 35 0 0 47	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project Chemical quality of test report of GW was required to be submitted to SWID office. In 9 projects construction and
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) Telangana 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 50 39	0 0 0 0 0 0 0 0 35 0 0 47	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project Chemical quality of test report of GW was required to be submitted to SWID office. In 9 projects construction and installation work of
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) Telangana 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 50 39	0 0 0 0 0 0 0 0 35 0 0 47	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project Chemical quality of test report of GW was required to be submitted to SWID office. In 9 projects construction and installation work of tubewell and sump well
 Andhra Pradesh Chandigarh(through Govt. Orders) Delhi Goa Himachal Pradesh Jammu & Kashmir Karnataka Kerala Lakshadweep Puducherry (PGWA) Tamil Nadu (through Govt. Orders) Telangana 	42 14 60 40 40 40 60 40 0 6 50	SELF RI 34 0 0 0 0 0 0 0 35 0 0 50 39	0 0 0 0 0 0 0 0 35 0 0 47	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 0 0 0 0 0 0 0 0	No NOC condition. Not done by any project Chemical quality of test report of GW was required to be submitted to SWID office. In 9 projects construction and installation work of

Name of the State/ UTs	Number	Number	Out of projects where such condition was specified				
	of	of	Number of	Number of	Number	Remarks, if any	
	Sampled	Sampled	Sampled	Sampled	of		
	projects	Projects	Projects in	Projects	Sampled		
		where	which	that	Projects		
		condition	compliance	complied	in which		
		was	reports	with the	complian		
		specified	were not	NOC	ce could		
			submitted	Condition	not be		
					ascertain		
					ed in		
					Audit		
Grand Total	1,067	776	438	184	154		

(x) Withdrawal of yearly Ground Water in excess of prescribed limit

Na	me of the State/UT	Number	Number	Out of projects where such condition was specified			
		of Sampled	of Sampled	Number of	Number of	Number of	Remarks, if any
		projects	Projects	Sampled		Sampled	
		projects		Projects	Sampled	Projects in	
			where	that were	Projects	which	
			condition	drawing	that	compliance	
			was	excess	complied	could not	
			specified	Ground	with the	be	
				Water	NOC	ascertained	
				(Yearly)	Condition	in Audit	
				OTIFIED AREAS	ı	•	
1.	Arunachal Pradesh	6	6	0	0	6	No log book was maintained by any
							firm even through it was specified in the NOC.
2.	Assam	50	50	0	17	33	One industry was
							closed and log book was not maintained in 32 projects
3.	Bihar	42	41	1	11	29	In 11 units one year
							period not completed
4.	Chhattisgarh	50	50	0	22	28	completed
 5.	Dadra & Nagar Haveli	3	3	0	3	0	
6.	Daman & Diu	0	0	0	0	0	
			42	9		3	One preject was not
7.	Gujarat	42		-	30	-	One project was not completed
8.	Haryana	35	35	13	22	0	
9.	Jharkhand	20	16	0	4	12	
10.	Madhya Pradesh	50	50	0	13	37	-
11.	Maharashtra	50	50	2	27	21	
12.	Manipur	3	3	0	1	2	
13.	Meghalaya	4	4	0	0	4	
14.	Nagaland	3	3	1	1	1	M/s Esther
							Beverages were abstracting Ground Water without obtaining renewal of NOC. Nagaland State Dairy Cooperative Federation Ltd. Yet to complete the boring well. Hence could no

Name of the State/LIT	Number	Number	Out of project	e whore such	condition was	cnocified
Name of the State/UT	of	of	Number of	Number	Number of	Remarks, if any
	Sampled	Sampled	Sampled	of	Sampled	Remarks, it ally
	projects	Projects	Projects	Sampled	Projects in	
	projects	where	that were	Projects	which	
		condition	drawing	that	compliance	
		was	excess	complied	could not	
		specified	Ground	with the	be	
		specifica	Water	NOC	ascertained	
			(Yearly)	Condition	in Audit	
15. Orissa	50	49	0	11	38	Three project not yet
13. O1133d	30	43	U	11	36	started.
16. Punjab	50	50	0	29	21	startea.
17. Rajasthan	44	44	0	30	14	
18. Tripura	13	13	11	0	2	
19. Uttar Pradesh	40	40		-		On a line division in the
19. Ottar Pradesh	40	40	1	24	15	One industry was sealed and 3 were
20. Uttarakhand	40	40	8	20	2	not operational.
20. Ottaraknand	40	40	8	30	2	One project was not
TOTAL	595	589	46	275	268	operational
TOTAL	595		_	2/5	268	
4 Div 9 Dames UT	0		IFIED AREAS	0	0	
1. Diu & Daman UT	0	0	0	0	0	
2. Gujarat	0	0	0	0	0	
3. Haryana	30	18	14	2	2	
4. Madhya Pradesh	48	0	0	0	0	-
5. Punjab	36	25	1	6	18	
6. Rajasthan	95	0	0	0	0	
7. Uttar Pradesh	0	0	0	0	0	
8. Tamil Nadu	2	0	0	0	0	
9. West Bengal	10	10	0	1	9	One project was not
						constructed,
						One project not
						found during site visit
TOTAL	221	53	15	9	29	
			ULATED STATE	S		
1. Andhra Pradesh	42	18	0	0	18	
Chandigarh(through	14	0	0	0	0	
Govt. Orders)						
3. Delhi	60	0	0	0	0	
4. Goa	40	0	0	0	0	Although daily water
						abstraction condition
						was there. Out of 40
						projects, 24 did not
						comply with the
						provision
5. Himachal Pradesh	40	0	0	0	0	
6. Jammu & Kashmir	40	40	0	12	28	
7. Karnataka	60	12	0	3	9	
8. Kerala	40	40	0	12	28	Flow meter reading
						and logbook reading
						disagree. Delivery
						line between pump
						and flow meter was
						buried under ground.
						Additional pumps
						without water meter
						was installed in the
						same well.
9. Lakshadweep	0	0	0	0	0	
10. Puducherry (PGWA)	6	0	0	0	0	Yearly quantum of
						withdrawal is not

Name of the State/UT	Number	Number	Out of projects where such condition was specified			
	of Sampled projects	of Sampled Projects where condition was specified	Number of Sampled Projects that were drawing excess Ground Water (Yearly)	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	Remarks, if any
						fixed in the permits issued by PGWA
11. Tamil Nadu (through Govt. Orders)	50	0	0	0	0	
12. Telangana	40	0	0	0	0	
13. West Bengal	40	35	0	9	26	Project was not started in four projects; Abstraction was not started in one project; (due to non- maintenance of log book)
TOTAL	472	145	0	36	109	
Grand Total	1,288	787	61	320	406	

(xi) Installation of STP/ETP

	Name of the State/ UT	Number of Sampled projects	Number of Sampled Projects where condition was specified	Out of project Number of Sampled Projects that did not ensure proper recycling and reuse of waste water after adequate treatment	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	specified Remarks, if any			
NON-NOTIFIED AREAS										
1.	Arunachal Pradesh	6	6	3	3	0				
2.	Assam	50	50	27	22	1				
3.	Bihar	42	42	20	18	4	3 units were under construction			
4.	Chhattisgarh	50	50	25	25	0				
5.	Dadra & Nagar Haveli	3	3	0	3	0				
6.	Daman & Diu	0	0	0	0	0				
7.	Gujarat	42	41	4	31	6	One project was not completed.			
8.	Haryana	35	33	18	11	4				
9.	Jharkhand	20	20	3	10	7	7 projects yet to be started			
10.	Madhya Pradesh	50	50	14	33	3				
11.	Maharashtra	50	50	3	47	0				
12.	Manipur	3	0	0	0	0				
13.	Meghalaya	4	4	4	0	0				
14.		3	0	0	0	0	Not conditioned in the NOC in respect of the three units.			
15.	Orissa	50	50	31	16	3				

	Name of the State/ UT	Number	Number	Out of project	cts where such	n condition was	specified
		of Sampled projects	of Sampled Projects where condition was specified	Number of Sampled Projects that did not ensure proper recycling and reuse of waste water after adequate treatment	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	Remarks, if any
16.	Punjab	50	50	16	32	2	
17.	Rajasthan	44	44	18	26	0	
18.	Tripura	13	13	11	0	2	
	Uttar Pradesh	40	40	9	27	4	One project sealed and 3 were not operational
20.	Uttarakhand	40	40	10	30	0	
	TOTAL	595	586	216	334	36	
				LATED AREAS		. <u></u>	
	1. Andhra Pradesh	42	35	1	16	18	
	Chandigarh(through Govt. Orders)	14	0	0	0	0	-
	3. Delhi	60	0	0	0	0	
	4. Goa	40	0	0	0	0	
	5. Himachal Pradesh	40	0	0	0	0	
	6. Jammu & Kashmir	40	0	0	0	0	
	7. Karnataka	60	5	0	5	0	
	8. Kerala	40	0	0	0	0	No NOC condition on recycle and reuse. Not done by any project
	9. Lakshadweep	0	0	0	0	0	
	10. Puducherry (PGWA)	6	2	0	0	2	
	Tamil Nadu (through Govt. Orders)	50	0	0	0	0	
	12. Telangana	40	37	16	4	17	
	13. West Bengal	40	8	4	4	0	
TO'	ΓAL	472	87	21	29	37	
Gra	ind Total	1,067	673	237	363	73	

Annexure 3.4 (Refer para 3.10.1)

Violation of conditions specific to Notified Areas

(i) Diameter of the Tube well/ Bore well

Name of the	Number	Number of	Out of projects w	here such condi	tion was specified	
State	of Sampled projects	Sampled Projects where condition was specified	Number of Sampled Projects where the diameter of Tube well/ Bore well was in excess of the prescribed limit	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit	Remarks, if any
Haryana	30	26	8	16	2	
Madhya Pradesh	48	43	30	10	3	-
Punjab	36	30	1	29	0	
Rajasthan	95	33	1	32	0	
Delhi	60	10	0	7	3	
Tamil Nadu	2	0	0	0	0	
West Bengal	10	10	0	8	2	One project was not constructed, one project not found during site visit
TOTAL	281	152	40	102	10	

(ii) Capacity of the Pump

Name of the	Number of	Number of	Out of projects w	here such conditi	on was specified	
State	Sampled project	Sampled Projects where condition was specified	Number of Sampled Projects where capacity of the pump was in excess of the prescribed limit	Number of Sampled Projects that complied with the NOC Condition	Number of Sampled Projects in which compliance could not be ascertained in Audit (Partially)	Remarks, if any
Haryana	30	26	8	16	2	
Madhya Pradesh	48	43	31	6	6	
Punjab	36	35	4	25	6	
Rajasthan	95	16	14	2	0	
Tamil Nadu	2	0	0	0	0	
West Bengal	10	10	0	8	2	One project was not constructed, One project not found during site visit
TOTAL	221	130	57	57	16	

(iii) Formation encountered to be sent to CGWB, RO

Name of the	Number of	Number	Out of projects w	here such condition	n was specified	
State	Sampled project	of Sampled Projects where condition was specified	Number of Sampled Projects where formation encountered was not sent to CGWB	Number of Sampled Projects that complied with the condition of NOC	Number of Sampled Projects in which compliance could not be ascertained in Audit (Partially)	Remarks, if any
Haryana	30	30	25	2	3	
Madhya Pradesh	48	0	0	0	0	
Punjab	36	36	31	1	4	
Rajasthan	95	0	0	0	0	
Delhi	60	19	19	0	0	
West Bengal	10	0	0	0	0	No provision
TOTAL	279	85	75	3	7	

Annexure 4.1 (Refer para 4.3.4)

Projects Completed/Foreclosed/Rescinded

SI. No.	Tender Title		ells to be ually constructed		al Progress Crore)	Date of Signing of contract	Originally Targeted date	Date of Completion	Delay
		Exploratory wells	Observatory wells	Total	Amount released		of Completion		
1.	Tender for Construction of Exploratory and Observation Wells in Haryana	57/54	57/53	12.14	8.33	12.05.17	06.02.18	10.11.18	277
2.	Tender for Construction of Exploratory and Observation Wells in Rajasthan (Package-3)	201/201	100/44	14.67	6.75	21.07.18	04.06.19	04.06.19	Nil
3.	Tender for construction of Exploratory and observation wells in arsenic affected areas of Bihar	40/19	5/1	9.84	3.78	-	04.03.18	13.09.19	558
4.	Tender for Construction of Exploratory and Observation Wells in Arsenic affected areas of West Bengal	67/67	6/6	-	-	25.04.17	19.01.18	15.04.18	86
5.	Tender for construction of exploratory and observation wells in Tamil Nadu	213/192	179/115	22.27	13.43	-	07.08.18	15.03.19	220
6.	Tender for Construction of Exploratory and Observation Wells in Karnataka	342/342	140/126	16.34	14.29	26.02.2018	26.02.18	17.12.18	294
7.	Data Generation in Punjab and Ghazipur (UP) year 2017-18 (WAPCOS Project)	97/97	27/27	32.23	26.81	(September 2017)	31.07.18	31.03.19	243
8.	Tender for Construction of Exploratory and Observation Wells in Rajasthan (Package-2) Project foreclosed by the ministry	101/86	50/21	5.34	3.67	24.04.17	19.01.18	Foreclosed on 22.02.2016	-
9.	Tender for Construction of Exploratory and Observation Wells in Arsenic affected areas of Jharkhand	40/5	9/0	3.76	0	02.05.17	22.01.18	Forfeited performance guarantee after rescinding of contract	-

Ongoing Projects

Sl. No.	Tender Title	nder Title No. of Wells to be Fir constructed/Actually constructed		Financial Progress (in Crore)		Date of Signing of contract	Originally Targeted date of	Delay as of November 2019
		Exploratory wells	Observatory wells	Total	Amount released		Completion	
1.	Tender for Construction of Exploratory and Observation Wells in Rajasthan (Package-4)	146/128	103/91	38.12	30.14	19.04.17	14.03.18	626
2.	Tender for Construction of Exploratory and Observation Wells in Telangana	206/191	34/33	5.01	3.03	30.11.18	30.08.19	92
3.	Tender for Construction of Exploratory and Observation Wells in Gujarat	227/66	94/16	45.87	9.69	20.06.17	17.03.18	623
4.	Tender for Geophysical Investigation, Exploratory Drilling and Chemical Analysis of Water Samples in 11 districts of Bundelkhand (except Lalitpur and Jhansi)	356/141	158/25	28.89	5.21	25.01.18	20.09.18	436
5.	WAPCOS Project for Hydro geological Data Generation for Aquifer M wells) 4 contracts were selected in audit	apping in 13 State	es of India ⁸⁰ (Drilli	ng, constru	iction & pump	ng test of Explor	atory wells and	Observatory
	West Bengal	114/105	60/54	24.72	24.08	September	31.07.18	487
	Andhra Pradesh	107/63	57/39	19.12	11.49	2017		
	Tamil Nadu	92/90	46/19	4.50	3.38			
	Uttar Pradesh	114/114	114/114	30.96	30.31			

Site selection was to be done within 60 days and all 2,169 sites were to be provided. However, CGWB was able to hand over only 1680 sites to WAPCOS/ Contractors as of March 2019.

Annexure 4.2 (Refer para 4.3.7)

Position of action taken by States on Aquifer Management Reports

SI. No.	State/UT	Block/districts for which Aquifer Mapping Reports are prepared and placed on website	Audit Observations
1.	Andhra Pradesh	Anantapur, Chittoor , West Godavari (Parts)	GW&WAD has informed that it has taken up water conservation activity like desilting of tanks, construction of check dams etc. Some of the recommendations in the report have been considered in these projects.
2.	Arunachal Pradesh	Parts of Papum Pare & East Kameng	No action was taken on recommendations made in the reports.
3.	Assam	Lakhimpur(Parts), Karbi- Anglong(Parts), Dhemaji(Parts)	Although State Ground Water Coordination Committee had already been constituted by the Government of Assam in 2013, no action was taken on the reports.
4.	Bihar	Parts of Bhojpur, Vaishali(Parts), Begusarai(Parts)	State Government had not taken any action on the recommendations made in the reports.
5.	Chhattisgarh	Korba(Parts), Raigarh(Parts), Balod(Parts)	State Government had not taken any action on the three sampled Aquifer Mapping Reports. DoWR,RD&GR informed (October 2019) that CGWB had provided (in 2019) 15 block-wise Aquifer Mapping Reports to State Government for incorporation of Aquifer mapping data in preparation of Project on 'NaruaGaruaGhuruwa Bari' of the Government of Chhattisgarh. However, the reply was silent about the implementation.
6.	Dadra & Nagar Haveli	D&NH	No action was taken on recommendation made by CGWB
7.	Delhi	All Tehsils	Only one report of NAQUIM relating to Delhi was prepared by CGWB. In the 4th meeting of SGWCC, Chaired by the Principal Secretary (UD), the NAQUIM report was appreciated and it was decided that DJB will identify water deficient areas based on above report and accordingly schemes will be framed. It was also decided that DJB will avoid drawing water from contaminated areas. A Pilot project was decided to be started for desalinating the groundwater. Further action was awaited.
8.	Gujarat	Junagarh, Porbandar	Reports were yet to be approved by the SGWCC.
9.	Haryana	Sirsa, Fatehabad, Karnal, Kurukshetra	The reports were shared with the field offices of Ground Water cell, Haryana and were used in identified location for artificial recharge, assessment of Ground Water resources and identified quality/quantity of distributions of aquifer in the State. However, further action taken by the State on the recommendations in the reports was not available.
10.	Jammu & Kashmir	Kashmir Valley in parts of districts of Anantnag, Badgam, Baramulla	As per recommendations of the NAQUIM study it was decided to take up 1-2 recharge boreholes in the bed of Ranbir Canal for recharge to Ground Water in Kandi areas on experimental

SI.	State/UT	Block/districts for which Aquifer	Audit Observations
No.		Mapping Reports are prepared and placed on website	
		,	basis. However, action taken in this regard was not available.
11.	Jharkhand	Ranchi (Parts), Ramgarh, Dhanbad (Parts)	The recommendations were shared with the State administration during the SGWCC meetings held in May 2015 and March 2016. However, further action taken by the State on the recommendations in the reports was not available.
12.	Karnataka	Chikballapur, Tumkur(Parts), Kolar	 Aquifer Mapping and Management Report has not been implemented effectively in Karnataka due to following shortcomings: AMP reports submitted by CGWB are in the Power Point Presentation form and not as complete reports except the Pilot Basin Report and Kolar Report. No funds were received either from CGWB or from the Central Government for implementing the reports in the field. The map scale was very small and it was difficult to locate the location exactly. CGWB had replied that the locations are marked on the map without field check and that GWD officers are good in the field and can locate the suitable sites on their own. With shortage of staff and no budget available with the Department for the implementation of this programme, it was stated to be very difficult for GWD to carry out such detailed field checks.
13.	Kerala	Alapuzha, Ernakulum(Parts), Trichur(Parts)	The Secretary, Water Resources Department (WRD) stated that the department was making all out efforts to implement the Ground Water Management Plans in the State wherever such activities were being carried out in the State. The State Ground Water Department uses the aquifer maps, wherever prepared by CGWB, to implement Ground Water Management Plans in the State. However, separate funding is not provided, either by the Government of India or by the State Government, to implement Ground Water Management Plans recommended in the reports of CGWB in this regard. The Department stated (October 2019) that the State Government makes use of these reports in its flag ship project 'HarithaKeralam", an endeavour in achieving water security and environmental protection of the State.
14.	Madhya Pradesh	Ujjain, Dewas, Sagar	MPSEGC (Madhya Pradesh State Employment Guarantee Council) was implementing the Water Conservation and Artificial Recharge interventions proposed in the water stressed block Badnagar, Ujjain district under the technical guidance of CGWB. These

SI. No.	State/UT	Block/districts for which Aquifer Mapping Reports are prepared and placed on website	Audit Observations
			interventions are proposed on the basis of Aquifer Mapping and Management Plan of Ujjain district prepared by CGWB. This project covers 150 villages with an area of 1,055.10 sq km falling in Chamala and Chambal watershed of Badnagar block. So far, a total of 79 structures have been constructed in Badnagar block.
15.	Maharashtra	Ahmednagar(Parts), Buldhana(Parts), Jalgaon(Parts)	No action was taken by the State Government on the three sampled Aquifer Mapping Reports due to the following reasons: • The Aquifer maps were provided on the 1:50,000 scale, which was a broader scale. • The numbers of water conservation structures like percolation tanks, recharge shafts, check dams were suggested. However, the actual field locations were not given. • There was no budgetary provision from CGWB, Nagpur or Central Government during 2013-18, for the implementation of Management Plans.
16.	Manipur	Imphal West (Part)	No action has been taken on the recommendations made in the reports.
17.	Meghalaya	South Garo Hills, East Garo Hills, Ri-Bhoi	No action was taken by the State Government on the three sampled Aquifer Mapping Reports.
18.	Nagaland	Dimapur(Parts)	No action was taken by State Government on the recommendation.
19.	Odisha	Bhadrak, Balasore, Angul(Parts)	A meeting of SGWCC was held in May, 2016. State Government (Directorate of Ground Water Development, Odisha, Bhubaneswar) has not taken any action on the three sampled Aquifer Mapping Reports for implementation on recommendation.
20.	Punjab	Gurdaspur, Ludhiana, Patiala, Sangrur	Audit observed that in the draft report on Aquifer Mapping and Management Plan (2016), in three (districts Gurdaspur, Ludhiana and Sangrur), out of four selected districts, the information on geophysical and geological data were not compiled and analysis of land use pattern were not prepared. In Sangrur, geochemical data was also not complied. Reply of CGWB in this regard is still awaited (March 2019).
21.	Rajasthan	Alwar, Bhilwara, Jaipur	 Recommendations were made that sprinkler irrigation system should be adopted instead of traditional irrigation and cropping pattern be changed from wheat to gram. Advisories were given during meeting of gram sabha / ratri gram chopal and through advertisements in newspapers for adopting

SI. No.	State/UT	Block/districts for which Aquifer Mapping Reports are prepared and placed on website	Audit Observations
			sprinkler irrigation system and change of crop pattern from wheat to gram.
22.	Tamil Nadu	Amaravathi, Bhavani, Chennai, Upper Ponnaiyar, Tirupur (Parts)	Out of five NAQUIM reports selected, the State had taken partial action in two cases. WRO department directed the plan formulation wing to give priority for constructing the Artificial Recharge Structure at the recommended site locations after field verification and geo-physical surveys in Chennai aquifer system and Upper Ponnaiyar basin.
23.	Telangana	Nalgonda , Nizamabad districts	The details of action taken on two sampled reports by Government were awaited from the Commissioner, Rural Development Department.
24.	Tripura	South Tripura (Parts)	There was only one report of Aquifer Management Plan for the Parts of South Tripura District. There were four recommendations in the report and all the recommendations were partially implemented.
25.	Uttar Pradesh	Meerut, Bulandshahar, Muzaffarnagar	Government of UP was implementing State Ground Water Mission in the identified areas of Uttar Pradesh having Ground Water problems. The Mission envisaged carrying out comprehensive study on Ground Water resources and implementation of various techniques of water conservation and management in an integrated way on the basis of area-wise micro-planning. DoWR,RD&GR informed (October 2019) that Ground Water Department, UP had utilized the Aquifer Mapping carried out by CGWB in preparation of plans for above purpose. However, specific details were not furnished.
26.	Uttarakhand	Haridwar, Udham Singh Nagar (parts)	No follow up action was undertaken by the State Government on the decision of State Level Ground Water Coordination Committee (SLGWCC). The State Government had no information about recommendations of SLGWCC and action thereon.
27.	West Bengal	Murshidabad (Parts) , Nadia (Parts), North 24 Parganas (Parts)	No recommendation was made by the committee regarding implementation of the Management Plan.

Annexure 4.3 (Refer para 4.5.1)

Details of equipment and software

(₹ in crore)

SI. No.	Description of Equipment, Software, Rigs etc. to be procured	No. of items to be procured	Amount allocated	No. of items procured	Expenditure (2012-19)
1	Hydrological Equipment	3,560	52.05	Nil	Nil
2	Scientific equipment (Chemical and Geophysical)	875	58.94	407	15.51
3	Scientific Software	503	12.36	67	4.8
4	Drilling equipment	55	181.82	40	87.54
		Total	305.17		107.85

Annexure 5.1 (Refer para 5.2.1)

Districts having high stage of extraction of Ground Water

SI. No.	State/UT	No. of total districts	No. of districts having SoE more than 70 per cent	Percentage of districts having SOE more than 70 per cent	Range of SoE in per cent
1	Andhra Pradesh	13	1	8	89
2	Andaman & Nicobar Islands	3	0	0	-
3	Arunachal Pradesh	16	0	0	-
4	Assam	28	0	0	
5	Bihar	38	2	5	73 to 96
6	Chandigarh	1	1	100	89
7	Chhattisgarh	27	2	7	78 to 83
8	Dadra & Nagar Haveli	1	0	0	-
9	Daman &Diu	2	1	50	91
10	Delhi	12	10	83	84 to 255
11	Goa	2	0	0	-
12	Gujarat	33	7	21	72 to 115
13	Haryana	22	19	86	91 to 244
14	Himachal Pradesh	8	5	63	76 to 385
15	Jammu & Kashmir	22	0	0	-
16	Jharkhand	24	2	8	71 to 76
17	Karnataka	33	12	36	76 to 211
18	Kerala	14	1	7	80
19	Lakshadweep	9	3	33	74 to 83
20	Madhya Pradesh	51	10	20	73 to 127
21	Maharashtra	34	7	21	72 to 88
22	Manipur	10	0	0	-
23	Meghalaya	11	0	0	-
24	Mizoram	8	0	0	-
25	Nagaland	11	0	0	-
26	Odisha	30	0	0	-
27	Puducherry	3	1	33	102
28	Punjab	22	22	100	74 to 260
29	Rajasthan	33	29	88	84 to 293
30	Sikkim	4	0	0	-
31	Tamil Nadu	32	19	59	75 to 172
32	Telangana	31	14	45	71 to 341
33	Tripura	8	0	0	-
34	Uttar Pradesh	75	32	43	71 to 128
35	Uttarakhand	4	0	0	-
36	West Bengal	17	2	12	87 to 92
	TOTAL	692	202	29	