

## **Appendix-1**

**(Reference: Paragraphs 1.2 & 1.3; Page 3, 4)**

### **Details of Rural and Urban Water Supply Schemes**

#### **Rural Water Supply Schemes:**

Rural Water Supply Schemes are financed through State Schemes and Centrally Sponsored Schemes on the basis of their funding pattern.

#### **Centrally Sponsored Scheme**

**(i) National Rural Drinking Water Programme (NRDWP) now renamed as Jal Jeevan Mission (JJM):**

NRDWP was renamed as JJM w.e.f. 15<sup>th</sup> August 2019. JJM, is intended to provide safe and adequate drinking water through individual household tap connection by 2022 in rural Haryana area. JJM has three main components viz. Coverage, Support Activities & WQMS. The funding pattern for Coverage is 50:50 whereas for Support Activities and WQMS it is 60:40 as Central and State share respectively.

**(ii) National Institution for Transforming India (NITI) Aayog Assistance/Scheme:** To tackle the Quality Affected Habitations (QAH) and to provide immediate intermediate solution in form of Community Water Purification Plants (CWPP) to quality affected habitations, NITI Aayog provided one time (March 2016) central assistance out of its own fund.

#### **State Plan Schemes**

**(i) Augmentation Rural Water Supply Programme:** This is a 100 *per cent* State Sector scheme. Under this programme, the existing drinking water supply facilities are improved / strengthened in the villages by undertaking an array of activities which amongst other include Drilling additional tubewells, Augmentation of existing canal based schemes, Creating new canal based water works, Constructing boosting stations, Strengthening of existing distribution system.

**(ii) National Bank for Agriculture and Rural Development (NABARD) Aided Schemes:** In order to accelerate the implementation of augmentation of major rural drinking water supply schemes, the State has been availing funding from NABARD since 2000-2001 against various projects. NABARD has been partnering the State Government in the creation of an extensive infrastructure in the rural areas. The funding pattern is 85:15 with 85 *per cent* coming from NABARD as a loan component whereas 15 *per cent* is contribution of the State.

**(iii) Special Component Sub Plan (SCSP) (Rural):** Under the Special Component Sub Plan, drinking water facility is provided/ upgraded in the villages/habitations predominantly inhabited by scheduled caste households. The funds allocated under SCSP are to be exclusively utilised for the welfare of

the Scheduled Castes and other disadvantaged section of the society towards objective of ensuring equity and empowerment, particularly of women.

(iv) **Swaran Jayanti Mahagram Yojana Rural Water Supply:** Under this scheme, 132 villages having population of around 10,000 persons were planned to be provided with water supply and sewerage facility in three phases at par with urban area. Under this scheme water supply @ 135 LPCD is to be provided in the selected villages.

(v) **Mahatma Gandhi Gramin Basti Yojana (MGGBY):** Mahatma Gandhi Gramin Basti Yojana (MGGBY) was launched in the State of Haryana during the year 2008-09 for the benefit of poorer sections of the society. Under this scheme, the State Government allotted free residential plots to the beneficiaries and the work of laying of water supply pipelines was to be done by the PHED as a deposit work of the Development and Panchayat Department.

### **Urban Water Supply Schemes**

For water supply in urban areas, various Centrally Sponsored schemes and State schemes are implemented, the details are as follows:

#### **Centrally Sponsored Schemes**

(i) **AMRUT:** The Government of India, Ministry of Urban Development launched a scheme namely Atal Mission for Rejuvenation and Urban Transformation (AMRUT) in June, 2015 with the objective to ensure that every household has access to a tap with assured supply of water and a sewerage connection. The scope of work under the water supply component in AMRUT is to ensure that every household has access to a tap with assured supply of water, augmentation/rehabilitation of existing water supply schemes, water treatment Plants and universal metering.

#### **State Sponsored Schemes**

(i) **Urban Water Supply State Plan:** This scheme/programme is being operated in all 87 towns (83 notified and 4 de-notified) which are under the jurisdiction of PHED. Under this programme, the existing drinking water supply facilities are being improved/ strengthened in the urban areas.

(ii) **Urban NCR (Water Supply):** This scheme/programme is being operated in National Capital Region (NCR) towns falling in eight districts of the state viz. Gurugram, Mewat, Rohtak, Sonapat, Rewari, Jhajjar, Panipat and Palwal.

## Appendix-2

(Reference: Paragraph 1.3; Page 3)

## Details of towns and areas under PHED, ULB and HSVP

Name of towns which are under jurisdiction of PHED					
Sr. No.	Name of Town	Sr. No.	Name of Town	Sr. No.	Name of Town
<b>Notified Towns</b>					
1.	Ambala City	2.	Jhajjar	3.	Pinjore
4.	Assandh	5.	Jind	6.	Pundri
7.	Ateli Mandi	8.	Julana	9.	Punhana
10.	Bahadurgarh	11.	Kaithal	12.	Radaur
13.	Barara	14.	Kalanaur	15.	Rania
16.	Barwala	17.	Kalanwali	18.	Ratia
19.	Bawal	20.	Kalayath	21.	Rewari
22.	Bawani Khera	23.	Kalka	24.	Rohtak
25.	Beri	26.	Kanina	27.	Safidon
28.	Bhiwani	29.	Kharkhoda	30.	Samalkha
31.	Charkhi Dadri	32.	Kurukshetra	33.	Sampla
34.	Cheeka	35.	Ladwa	36.	Shahbad
37.	Dharuhera	38.	Loharu	39.	Sirsa
40.	Ellenabad	41.	Mahendragarh	42.	Siwani
43.	F. P. Zhirka	44.	Mandi Dabwali	45.	Sohna
46.	Farukh Nagar	47.	Meham	48.	Taoru
49.	Fatehabad	50.	Naraingarh	51.	Taraori
52.	Ganaur	53.	Nangal Chaudhary	54.	Tohana
55.	Gharaunda	56.	Narnaul	57.	Uchana
58.	Gohana	59.	Narnaund	60.	Yamuna Nagar
61.	Haily Mandi	62.	Narwana	63.	Uklana Mandi
64.	Hansi	65.	Nilokheri	66.	Bass
67.	Hathin	68.	Nissing	69.	Bhuna
70.	Hisar	71.	Nuh	72.	Ismaliabad
73.	Hodel	74.	Palwal	75.	Rajound
76.	Indri	77.	Panipat	78.	Sadhuara
79.	Jagdhari	80.	Pataudi	81.	Sisai
82.	Jakhal	83.	Pehowa		
<b>Denotified Towns</b>					
1.	Chhachrauli	2.	Tosham	3.	Hassanpur
4.	Kosli				
<b>Name of towns under jurisdiction of ULB</b>					
1.	Karnal	2.	Sonepat	3.	Faridabad
4.	Gurugram				
<b>Name of town under jurisdiction of HSVP</b>					
1.	Panchkula				
<p>* In all towns, where sectors have been developed by HSVP, water supply is maintained by HSVP.</p> <p>** Notified town are towns those notified under law by the concerned state and have local bodies like Municipal Corporations/Councils/Committees irrespective of their demographic characteristics.</p> <p>***De-notified towns are towns those which were previously falls under the category of notified towns but due to any reason as of now they are not falling under the category of notified town.</p>					

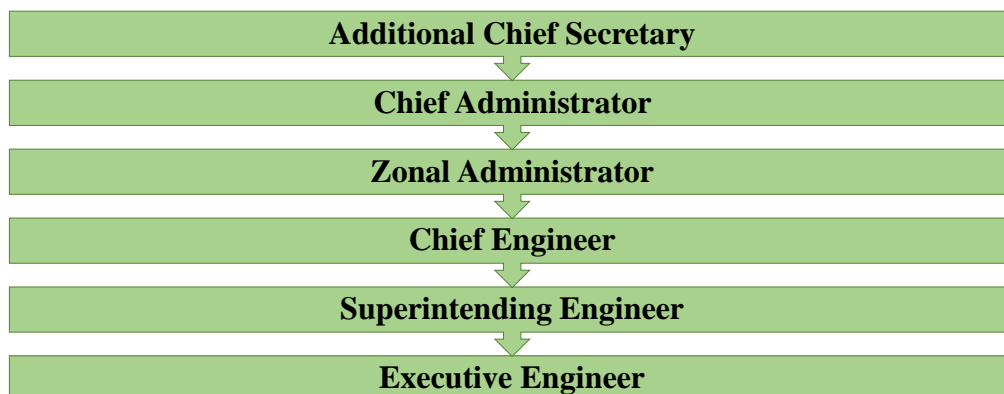
### Appendix-3

(Reference: Paragraph 1.4 (III); Page 6)

#### Organisation structure of implementing agencies

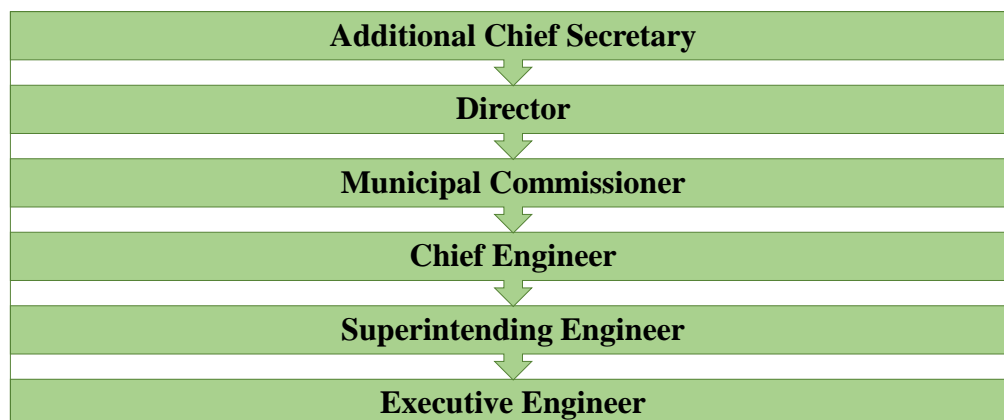
##### Organisational structure of Haryana Shehri Vikas Pradhikaran

Chief Administrator at the Headquarters is the overall in charge and responsible for discharging the functions of the Authority. He is assisted by five Zonal Administrators, posted at Faridabad, Gurugram, Hisar, Panchkula and Rohtak and one Administrator at Headquarters. The CA is guided by the policies framed by the Authority headed by the Minister-in-charge (designated as the Chairman of the Authority) of the Town & Country Planning Department (TCPD).



##### Organisational structure of Urban Local Bodies

The ULBs Department, headed by the Additional Chief Secretary, is the nodal department for the governance of all ULBs. The Directorate of Urban Local Bodies (DULB) functions as an interface between the State Government and ULBs. In accordance with the powers conferred under the HM Act, 1973 and HMC Act, 1994, the DULB administers, facilitates, co-ordinates and monitors the ULBs.





## Appendix-4

(Reference: Paragraph 1.7; Page 7)

### Detailed Audit Methodology

Out of 22 districts, 20 districts were divided in two equal categories/strata (10 district in each group) after arranging the districts in decreasing order of total weightage based on expenditure, area, rural and urban population, average rainfall & over exploited blocks. Thereafter, random sampling was done through Computer Assisted Audit Techniques (CAAT) and total seven districts were selected from both the strata. One additional district, Panchkula was selected as water supply in Panchkula town is being maintained by Haryana Shehri Vikas Pradhikaran (HSVP). As part of this audit, dump data of PHED as available with the department was analysed in detail. Audit was conducted at 36 offices including offices at directorate level during field study. Further, to verify the coverage, survey was conducted in MGGBY *bastis* in villages of selected districts. In addition to this, some locations were selected in these districts for assessment of:

- (i) Quantity of water supplied by installation of flow meters and sub-meters and noting down their one month reading and applying mathematical calculations.
- (ii) Quality of water by jointly collecting samples with departmental representatives and sending the samples to privately hired lab (third party) as well as to State Water Testing Laboratory of PHED at Karnal.
- (iii) Quantity and quality of water by conducting beneficiary survey. Beneficiary survey was conducted from 3 August 2022 to 8 August 2022. A total of 20 locations were selected and 30 beneficiaries from each location were chosen depending upon availability. Overall, 617 beneficiaries (PHED: 243; MCs: 254 & HSVP: 120) were surveyed.

#### Offices covered during Field Study

Sr. No.	District	Name of office	Number of offices
1.	Hisar	Executive Engineer, Public Health Engineering Divisions No.1, No.2 No.3 and Hansi	7
		Municipal Corporation	
		Executive Engineer, Haryana Shehri Vikas Pradhikaran Divisions No.1 & No.2	
2.	Kurukshetra	Executive Engineer, Public Health Engineering Division	2
		Executive Engineer, Haryana Shehri Vikas Pradhikaran Division, Ambala (Sub-division Kurukshetra)	

Sr. No.	District	Name of office	Number of offices
3.	Panchkula	Engineer-in-Chief, PHED	7
		Director, Urban Local Bodies	
		Municipal Corporation	
		Chief Administrator, HSVP	
		Executive Engineer, PHED	
		Executive Engineer, HSVP Divisions No.1 & No. 2	
4.	Rewari	Executive Engineer, PHED (Rewari, Bawal, Kosli)	5
		Executive Engineer, HSVP Division	
		Municipal Council	
5.	Fatehabad*	Executive Engineer, PHED, Fatehabad and Tohana	2
6.	Karnal	Executive Engineer, PHE Division No.1 & No. 2	4
		Municipal Corporation	
		Executive Engineer, HSVP Division	
7.	Rohtak	Executive Engineer, PHE Division No.1 & No. 2	5
		Municipal Corporation	
		Executive Engineer, HSVP Division No.1 & No. 2	
8.	Faridabad	Executive Engineer, PHE Division,	4
		Municipal Corporation	
		Executive Engineer, HSVP Divisions No.1 & No. 3	
<b>Total</b>			<b>36</b>

\* HSVP area of Fatehabad district falls under the jurisdiction of HSVP Division no. 2, Hisar.

## Appendix-5

(Reference: Paragraph 2.7 (b); Page 17)

## Details of villages covered for survey under MGGBY

Sr. No.	Name of District	Name of Block	Name of Village	Sr. No.	Name of District	Name of Block	Name of Village
1	Faridabad	Ballabgarh	Atali	23	Kurukshetra	Ismailabad	Dhangali
2	Faridabad	Ballabgarh	Malerna	24	Kurukshetra	Ismailabad	Mandi
3	Faridabad	Ballabgarh	Samaipur	25	Kurukshetra	Pehowa	Arnaicha
4	Faridabad	Faridabad	Bhainsrawali	26	Kurukshetra	Pehowa	Chanalheri
5	Faridabad	Faridabad	Kheri Kalan	27	Kurukshetra	Pehowa	Saina Saidan
6	Faridabad	Faridabad	Tajupur	28	Panchkula	Pinjore	Khokhra
7	Fatehabad	Fatehabad	Badopal	29	Panchkula	Pinjore	Patter
8	Fatehabad	Fatehabad	Dariyapur	30	Panchkula	Pinjore	Tibbi
9	Fatehabad	Fatehabad	Nagpur	31	Panchkula	Raipur Rani	Naraynpur
10	Fatehabad	Ratia	Alipur Barota	32	Panchkula	Raipur Rani	Natwal
11	Fatehabad	Ratia	Hukmawali	33	Panchkula	Raipur Rani	Raipur Rani
12	Fatehabad	Ratia	Roanwali	34	Rewari	Dharuhera	Asiyaki Tappa Jarthal
13	Hisar	Barwala	Behbalpur	35	Rewari	Bawal	Jaliawas
14	Hisar	Barwala	Kheri Barki	36	Rewari	Bawal	Bolni
15	Hisar	Barwala	Bhada Khera	37	Rewari	Bawal	Khandola
16	Hisar	Hisar-1	Mirkan	38	Rewari	Rewari	Gendokher
17	Karnal	Nilokheri	Barani Khalsa	39	Rewari	Rewari	Kishangarh
18	Karnal	Nilokheri	Kurak Jagir	40	Rewari	Rewari	Nand Rampurpass
19	Karnal	Nilokheri	Sohlon	41	Rohtak	Lakhan Majra	Sunderpur
20	Karnal	Indri	Patehra	42	Rohtak	Rohtak	Dobh
21	Karnal	Indri	Butan Kheri	43	Rohtak	Rohtak	Kabulpur
22	Kurukshetra	Ismailabad	Bhusthala	44	Rohtak	Rohtak	Taja Majra

## Status of water supply during physical verification MGGBY

Total village selected	Villages where water supply service was available	Villages where water supply service was not made available	Percentage of villages not having water supply services
44	27	17	39

**Appendix-6**  
**(Reference: Paragraph 2.8; Page 18)**  
**Details of non-functional tube-wells due to pending electric connections**

Sr. No	Name of Scheme/ Tubewell	Name of Consty.	Name of division	Year	No. of TWs	Date of Drilling	Status
1.	Nathera	Kosli	Kosli	2020-21	1	17 January 2021	Electric Connection not Released
2.	Shadipur	Kosli	Kosli	2020-21	1	18 January 2021	Electric Connection not Released
3.	Kheri Ramgarh	Kosli	Kosli	2020-21	1	20 December 2020	Electric Connection not Released
4.	Siha	Kosli	Kosli	2020-21	1	24 November 2020	Electric Connection not Released
5.	Uncha	Kosli	Kosli	2020-21	1	14 December 2020	Electric Connection not Released
6.	Majra Gurdas	Rewari	Rewari	2019-20	1	12 September 2020	Electric Connection not Released

## Appendix-7

(Reference: Paragraphs 3.4.1, 3.4.2 &amp; 3.4.3; Page 23, 24)

## Details of outstanding water charges

## (a) Outstanding water charges in PHED

(₹ in crore)

Sr. No.	Name of Division	Rural			Urban		
		Total revenue which was to be realized	Total Revenue realized	Balance	Total revenue which was to be realized	Total Revenue realized	Balance
1	No. 1, Hisar	24.85	1.10	23.75	10.40	2.06	8.34
2	No.2, Hisar	32.69	0.87	31.82	15.53	13.44	2.09
3	Hansi	Not provided			5.29	4.79	0.50
4	Fatehabad	4.32	0.54	3.78	3.34	0.14	3.20
5	Tohana	17.26	1.02	16.24	10.22	6.14	4.08
6	Kurukshetra	14.23	1.24	12.99	45.81	13.72	32.09
7	No.1, Karnal	2.33	0.86	1.47	4.41	3.29	1.12
8	No.2, Karnal	6.93	1.04	5.89	3.59	3.07	0.52
9	Panchkula	7.84	1.45	6.39	10.67	5.94	4.73
10	Rewari	1.23	0.17	1.06	17.55	11.84	5.71
11	Bawal	10.98	0.44	10.54	3.76	1.55	2.21
12	Kosli	2.37	0.02	2.35	1.97	0.19	1.78
13	Faridabad	3.14	0.13	3.01	NA		
14	No.1, Rohtak	Not provided			2.93	1.25	1.68
15	No.2, Rohtak	Not provided			Not provided		
	<b>Total</b>	<b>128.17</b>	<b>8.88</b>	<b>119.29</b>	<b>135.47</b>	<b>67.42</b>	<b>68.05</b>

Data of rural areas in Hansi and non-domestic connection in Tohana was not provided.  
In Kosli, data is available from 08/2019 onwards.

## (b) Outstanding water charges in HSVP

Sr. No.	Name of Divisional Office	Amount Outstanding (₹ in crore)
1	Executive Engineer, Haryana Shehri Vikas Pradhikaran No 2, Hisar	0.95
2	Executive Engineer, Haryana Shehri Vikas Pradhikaran No 1, Panchkula	2.16
3	Executive Engineer, Haryana Shehri Vikas Pradhikaran No 2, Panchkula	0.29
4	Executive Engineer, Haryana Shehri Vikas Pradhikaran, Faridabad	3.23
5	Executive Engineer, Haryana Shehri Vikas Pradhikaran, Rewari	0.79
6	Executive Engineer, Haryana Shehri Vikas Pradhikaran, Rohtak	7.16
7	Executive Engineer, Haryana Shehri Vikas Pradhikaran, Karnal	4.2
8.	Executive Engineer, Haryana Shehri Vikas Pradhikaran, Ambala (Sub-division Kurukshetra)	0.40
<b>Total</b>		<b>19.18</b>

## (c) Outstanding water charges in MCs

Sr. No.	Name of Unit	Amount Outstanding as on 31 March 2021 (₹ in crore)
1	Municipal Corporation, Faridabad	30.04
2	Municipal Corporation, Karnal	41.64
<b>Total</b>		<b>71.68</b>

## Appendix-8

(Reference: Paragraph 3.5; Page 24)

## Details of Community Contribution Collection

Sr. No.	District	Total No. of Gram Panchayats under the jurisdiction of the department	10 per cent community contribution amount to be collected from Gram Panchayats (₹ in lakh)	10 per cent community contribution amount collected from Gram Panchayats (₹ in lakh)	Balance amount of community contribution to be collected from Gram Panchayats (₹ in lakh)
1.	Panipat	175	162.07	8.30	153.77
2.	Mahendragarh	341	21.50	0.70	20.80
3.	Karnal	379	560.18	15.80	544.38
4.	Fatehabad	256	750.10	8.20	741.90
5.	Ambala	397	354.85	2.20	352.65
6.	Jhajjar	247	384.31	1.70	382.61
7.	Yamunanagar	471	386.86	1.60	385.26
8.	Kurukshetra	392	363.62	0.80	362.82
9.	Kaithal	277	478.56	0	478.56
10.	Sonipat	311	455.76	0	455.76
11.	Rohtak	139	479.45	0	479.45
12.	Faridabad	116	163.69	0	163.69
13.	Gurugram	162	137.05	0	137.05
14.	Rewari	358	417.92	0	417.92
15.	Palwal	259	115.37	0	115.37
16.	Charkhi Dadri	166	10.42	0	10.42
17.	Nuh	317	699.57	0	699.57
18.	Bhiwani	304	57.16	0	57.16
19.	Jind	297	430.58	0	430.58
20.	Hisar	299	78.14	0	78.14
21.	Sirsa	338	277.19	0	277.19
22.	Panchkula	128	191.92	0	191.92
<b>Total</b>		<b>6,129</b>	<b>6,976.27</b>	<b>39.30</b>	<b>6,936.97</b>

**Appendix-9**  
(Reference: Paragraph 4.1; Page 29)  
**Assessment of quantity of water supplied by installing flow meters**

District	Name of Division	Name of TW/WW	Population as per census 2011	Population as of 2022	Date of installation of flow meter	Reading of flow meter (in cubic meter)	Date of last reading of flow meter	Total days	*LPCD status	Requirement as per norms	Remarks
<b>Public Health Engineering Department (PHED)</b>											
Fatehabad	PHED Tohana	Karnadi	1,083	1,321	20 July 2022	4,773.00	18 September 2022	60	60	70	Below
Hisar	PHED Hisar-2	Jeora	3,829	4,671	01 October 2022	57.00	04 October 2022	4	3	70	Below
Rewari	PHED Kosli	Juddi	2,855	3,483	01 August 2022	681.00	30 September 2022	61	3	70	Below
Rewari	PHED Bawal	Khaleta	2,920	3,562	10 June 2022	24,586.00	29 September 2022	112	62	70	Below
Karnal	PHED Karnal-2	Kalsora-3	5,123	6,250	05 June 2022	58,033.00	29 September 2022	117	79	55	Excess
Rohiakh	PHED Rohiakh-1	Katesra	5,947	7,255	21 July 2022	44,729.00	07 October 2022	79	78	55	Excess
Kurukshetra	PHED Kurukshetra	Kalwa	550	671	12 July 2022	8,563.00	04 October 2022	85	150	55	Excess
Hisar	PHED Hansi	Koth Khurd	3,130	3,818	16 July 2022	9,912.49	04 October 2022	81	32	70	Below
Hisar	PHED Hisar-1	Kabrel	4,387	5,352	17 July 2022	3,110.00	07 October 2022	83	7	70	Below
Faridabad	PHED Faridabad	Kasturba Sewa Sadan	Not available	110	25 July 2022	65.07	29 September 2022	67	9	135	Below
Rewari	PHED Rewari-1	Khihuri	4,581	5,588	05 September 2022	88.90	09 October 2022	35	0.45	70	Below
Fatehabad	PHED Fatehabad	Dhingsara	5,252	6,407	30 July 2022	38,459.00	11 October 2022	74	81.12	70	Excess
<b>Haryana Shehri Vikas Pradhikaran (HSVP)</b>											
Panchkula	HSVP No 1 Division, Panchkula	T/Well No. S-2, Sec-2, PKL	2,000	2,900	29 May 2022	35,505.00	21 September 2022	116	105.54	135	Below
		T/Well No. Golf Course Sec-3, PKL	2,000	2,900	20 June 2022	62,657.00	21 September 2022	94	229.85	135	Excess
		T/Well No. Peer Baba I/A Ph-I, PKL	2,000	2,900	04 June 2022	40,836.00	21 September 2022	110	128.01	135	Below
		T/Well No. 5, Sec-11, PKL	1,500	2,200	27 May 2022	26,919.00	21 September 2022	118	103.69	135	Below
		T/Well No. 5, Sec-12, PKL	2,000	2,900	30 May 2022	34,840.00	21 September 2022	115	104.47	135	Below
		T/Well No. 6, Sec-6, PKL	2,000	2,900	29 May 2022	14,279.00	21 September 2022	116	42.45	135	Below
		T/Well No. S-18, Sec-4, PKL	2,000	2,900	29 April 2022	47,197.00	21 September 2022	154	105.68	135	Below
		T/Well No. M-11, Sec-17, PKL	1,500	2,200	29 May 2022	28,698.00	21 September 2022	116	112.45	135	Below
		T/Well No. M-27, Sec-9, PKL	500	7,000	02 June 2022	65,388.00	21 September 2022	112	83.40	135	Below
		T/Well No. KV-5, Sec-20, PKL	2,000	2,900	05 June 2022	28,968.00	21 September 2022	109	91.64	135	Below

District	Name of Division	Name of TW/WW	Population as per census 2011	Population as of 2022	Date of installation of flow meter	Reading of flow meter (in cubic meter)	Date of last reading of flow meter	Total days	*LPCD status	Requirement as per norms	Remarks
Kurukshetra	No 2, Panchkula	E-21, Sector 26, Panchkula	600	612	09 June 2022	22,677.00	18 October 2022	132	280.72	135	Excess
		Ashana, Sector 28, Panchkula	630	643	04 June 2022	16,795.00	18 October 2022	137	190.78	135	Excess
		E-14, Sector 28, Panchkula	1,220	1,244	04 June 2022	38,941.00	18 October 2022	137	228.42	135	Excess
		E-1, Sector 31, Panchkula	600	612	25 June 2022	16,924.00	18 October 2022	116	238.39	135	Excess
		Sector 2, Water Works		2,000	14 September 2022	1,520.00	19 October 2022	36	21.11	135	Below
	Ambala	Tubewell No 08, Sector 13, Kurukshetra		2,600	14 September 2022	785.00	19 October 2022	36	8.39	135	Below
		Tubewell No 4, Sector 13, Kurukshetra		2,600	21 September 2022	1,077.00	19 October 2022	29	14.28	135	Below
		Tubewell No 2, Sector 03, Kurukshetra		3,300	05 October 2022	798.00	19 October 2022	14	17.27	135	Below
		Tubewell No 3, Sector 04, Kurukshetra		5,400	09 October 2022	99.00	19 October 2022	10	1.83	135	Below
		Tubewell No 7, Sector 05, Kurukshetra		5,000	08 October 2022	821.00	19 October 2022	11	14.93	135	Below

\* LPCD assessment: {Reading of flow meter (in cubic meter) X 1000} / (No. of days X Total Population)



## Appendix-10

(Reference: Paragraphs 4.2 & 4.2.2; Page 30, 31)

### **Audit Methodology for assessment of sanctioned discharge by I&WRD and storage tank capacity**

The said dump data of eight selected district was analysed and accordingly information viz. name of waterworks, village name, division name, original discharge, canal closure, canal running, population (as per census 2011) were extracted from the data dump. Prospective population for year 2021 was taken in calculation by considering two *per cent* increase per year in the population (census 2011) provided in data dump. To calculate the required discharge of raw water from Irrigation Department, calculation (as detailed below) was done by taking prospective population for the year 2021, canal running days, canal closure days, 55 LPCD requirement for Non DDP areas and 70 LPCD requirement for DDP areas while working out the actual sanctioned water as follows:

#### **Total cusec of water required during canal running and closure days (Raw water discharge required):**

Total requirement of water in litre: Total Population \* LPCD (55/70) + 15 *per cent* evaporation losses

Conversion of Water requirement in Litre to Gallons: Total water required in litre/4.54

Conversion of Water requirement in Gallons to cusec: (Gallons/25)\* 4 per second

Total water requirement in cusec = (Water requirement in Gallons \* (canal running days + canal closure days) \* 4) / (25 \* 60 \* 60 \* 24 \* canal running days)

Further analysis of dump data, some additional information viz. name of waterworks, village name and code, Division name, S&S tank capacity, original discharge, canal closure, canal running, population (as per census 2011) were extracted for checking the storage capacity of Storage & Sedimentation tank. For the required capacity of S&S tank during the closure period of canal, audit worked out the capacity of the S&S tanks by taking prospective population for the year 2021, canal running days, canal closure days, S&S tank capacity, evaporation losses @ 15 *per cent*, 55 LPCD requirement for Non DDP areas and 70 LPCD requirement for DDP areas as follows :

#### **Total capacity of S&S tank required during closure period of canal:**

{Total Population \* LPCD (55/70) \* Canal closure days + 15 *per cent* evaporation losses}.

## Appendix-11

(Reference: Paragraph 4.2.1; Page 30)

## Water works/Cases with less sanctioned discharge against the water requirement of 55 LPCD

District	Division	Water Works Name	Village Name	O Ro	Irrigation Canal Name	Type of inlet canal(es)	Canal Closure	Canal Running	Entered Population	Population 2021	Daily water Requirement+15 per cent	Original Discharge	Discharge Required	less sanction	per cent of less sanction
Rohtak	Rohtak-I	WW-ROH-GUDHAN	GUDHAN	22887R	I/L Katesra	Minor	20	7	4,334	5,201	3,28,963	0.48	0.52	0.04	8
		WW-ROH-GARNAUTHI	GURNAUTHI	2600 R	Bhutaia	Minor	24	8	4,079	4,895	3,09,609	0.35	0.51	0.16	31
		WW-ROH-KAHNAUR	KAHANAUR	7002L	Dharana	Minor	20	7	8,735	10,482	6,62,987	1.00	1.05	0.05	5
		WW-ROH-ANWAL	ANWAL	15291 L	Katesra	Minor	32	7	4,877	5,852	3,70,139	0.60	0.84	0.24	29
		WW-ROH-KHERRI	KHERARI	5975-L	Bond	Distributory	20	7	3,265	3,918	2,47,814	0.30	0.39	0.09	23
		WW-ROH-CHIRI	CHIRI	43120L	Kahamuar	Distributory	24	8	9,735	11,682	7,38,887	1.07	1.21	0.14	12
		WW-ROH-GHAROUTH	GURAUTHI	9206L	Titoli	Minor	24	8	5,183	6,220	3,93,415	0.45	0.64	0.19	30
		WW-ROH-NIDANA-MAHAM	NIDANA	5375 L	Nidana	Minor	24	7	3,556	4,267	2,69,888	0.33	0.49	0.16	33
		WW-ROH-ISMAILA-IIB	ISMAILA II BISWA	48500L	Dulhera	Distributory	24	7	7,826	9,391	5,93,981	1.04	1.08	0.04	4
		WW-ROH-GIRAWAR	GIRAWAR	71400-L	Bhiwani	Sub-Branch	24	7	7,927	9,512	6,01,634	0.75	1.09	0.34	31
		WW-ROH-MADINA KORSAN	MADINA KORSAN	47023 L	Mokhra	Minor	24	7	7,235	8,682	5,49,137	0.25	0.99	0.74	75
		WW-ROH-PAKASMA	PAKASMA	14500 R	Bhalaut	Distributory	24	7	6,005	7,206	4,55,780	0.74	0.83	0.09	11
		WW-ROH-KHARAWAR	KHARAWAR	40800	Dulhera	Distributory	24	7	7,415	8,898	5,62,799	0.78	1.02	0.24	24
		WW-ROH-SAMCHANA-II	SAMCHANA	73200-L	Jasrana	Minor	24	7	6,326	7,591	4,80,131	0.56	0.87	0.31	36

## Appendix-12

(Reference: Paragraph 4.2.1; Page 30)

## Water works/Cases with less sanctioned discharge against the water requirement of 70 LPCD

District	Division	Water Works Name	Village Name	O Ro	Irrigation Canal Name	Type of inlet canal(esv)	Canal Closure	Canal Running	Entered Population	Population 2021	Daily water Requirement+1 5 per cent	Original Discharge	Discharge Required	less sanction	Per cent of less sanction
Fatehabad	Fatehabad	WW-FTB-GORAKH PUR-BHUNA	GORAKHPUR	139258L	Fatehabad Branch	Branch	15	15	13,068	15,682	12,62,401	0.36	1.03	0.67	65
		WW-FTB-BADOPAL OLD WW	BADOPAL	183550L	Fatehabad Branch	Branch	15	15	7,000	8,400	6,76,200	0.48	0.55	0.07	13
		WW-FTB-CHOBARA	CHAUBARA	27944/R	Khajuri	Distributory	15	15	2,387	2,864	2,30,552	0.10	0.19	0.09	47
		WW-FTB-BHATTU KALANI	BHATTU KALAN	265966L	Fatehabad Branch	Branch	25	5	9,557	11,468	9,23,174	0.90	2.26	1.36	60
		WW-HSR-MASOODPUR-HANSI	MASUDPUR	7800-L	New Masudpur	Minor	16	8	7,980	9,576	7,70,868	0.54	0.95	0.41	43
Hisar	Hisar	WW-HSR-DHARAM KHERI	DHARAM KHERI	29545	Jammi Khara	Minor	24	8	3,065	3,678	2,96,079	0.36	0.48	0.12	25
		WW-HSR-SORKHI	SORKHI	175552R	Sunder Sub Branch	Sub-Branch	24	8	5,321	6,385	5,13,993	0.60	0.84	0.24	29
		WW-HSR-SINGHWA RAGOO	SINGHWA RAGHO	22800-L	Kharkari	Distributory	16	8	3,095	3,714	2,98,977	0.25	0.37	0.12	32
		WW-HSR-CHANOT	CHANOT	1400-L	Kharkari	Distributory	16	8	5,269	6,323	5,09,002	0.60	0.62	0.02	3
		WW-HSR-BHATLA	BHATLA	12000-L	Balsamand	Sub-Branch	24	8	5,848	7,018	5,64,949	0.08	0.92	0.84	91
		WW-HSR-MUZADPUR	MUZADPUR	89950-L	Sunder	Distributory	24	8	3,439	4,127	3,32,224	0.35	0.54	0.19	35
		WW-HSR-GURANA	GURANA	15000-L	Barwala	Branch	16	8	7,691	9,229	7,42,935	0.50	0.91	0.41	45
		WW-HSR-RAKHI KHAS	RAKHI KHAS	25500-L	Balsamand	Sub-Branch	24	8	5,202	6,242	5,02,481	0.60	0.82	0.22	27
		WW-HSR-KOTH KALAN	KOTH KALAN	26690-R	Nara	Distributory	16	8	9,558	11,470	9,23,335	0.40	1.13	0.73	65
		WW-HSR-DATTA	DATTA	45813-L	Datta	Distributory	16	8	9,539	11,447	9,21,484	0.50	1.13	0.63	56
		WW-HSR-BADALA-HANSI-II	BADALA	13200-L	Restoration Sorkhi	Minor	24	8	4,856	5,827	4,69,074	0.50	0.77	0.27	35
		WW-HSR-KHERI GAGAN	KHERI GAGAN	70340-R	Panihari/Masudpur	Channel	24	8	3,361	4,033	3,24,657	0.30	0.53	0.23	43
		WW-HSR-BHANA-AGROHA	BHANA	14850-R	Sarangpur	Minor	24	8	4,094	4,913	3,95,497	0.57	0.65	0.08	12
		WW-HSR-SISWAL	SISWAL	12000-L	Moda Khara	Minor	24	8	10,294	12,353	9,94,417	0.80	1.63	0.83	51
	Hisar-I														

District	Division	Water Works Name	Village Name	O Ro	Irrigation Canal Name	Type of inlet canal(esv)	Canal Closure	Canal Running	Entered Population	Population 2021	Daily water Requirement+1 5 per cent	Original Discharge	Discharge Required	less sanction	Per cent of less sanction
		WW-HSR-KHOLI	KOHLI	8852-L	Kishangarh	Sub-Branch	24	8	4,631	5,557	4,47,339	0.20	0.73	0.53	73
		WW-HSR-DAROLI	DAROLI	19800-R	Kishangarh link	Channel	24	8	3,310	3,972	3,19,746	0.11	0.52	0.41	79
		WW-HSR-KALIRAWAN	KALIRAWAN	22000-R	Jakhod	Distributory	24	8	8,627	10,352	8,33,336	0.50	1.36	0.86	63
		WW-HSR-NEOLI KALAN	NEOLI KALAN	102430R	Rana	Distributory	32	8	5,668	6,802	5,47,561	0.65	1.12	0.47	42
		WW-HSR-SADALPUR	SADELPUK	25950-L	Chiberwal	Minor	24	8	14,415	17,298	13,92,489	0.85	2.28	1.43	63
		WW-HSR-KHERAMPUR	KHERAMPUR	8500R	kohli	Minor	21	8	4,367	5,240	4,21,820	0.62	0.63	0.01	2
		WW-HSR-KHAIRAMPUR	SARANGPUR	22000-R	Khairampur	Minor	24	8	3,957	4,748	3,82,214	0.35	0.62	0.27	44
		WW-HSR-MATTAR SHYAM	MATER SHAM	126340L	kabir	Minor	24	8	3,617	4,340	3,49,370	0.35	0.57	0.22	39
		WW-HSR-BHODIA BISHNOIAN	BHODIA KHERA BISHNOIAN	39550-L	Adampur	Distributory	21	7	3,278	3,934	3,16,687	0.20	0.52	0.32	62
		WW-HSR-DOBHI	DOBHI	47000-L	Chaudhary	Minor	24	8	6,999	8,399	6,76,120	0.80	1.11	0.31	28
		WW-HSR-SHAHPUR	SHAHPUR	12000-R	kabir	Minor	24	8	5,559	6,671	5,37,016	0.46	0.88	0.42	48
		WW-HSR-SARSANA	SARSANA	11000-L	Barsa	Sub-Minor	24	8	4,269	5,123	4,12,402	0.60	0.67	0.07	10
		WW-HSR-LANDHARI	LANDHARI SUKHLAMBRAN	143900L	Parba	Sub-Branch	24	8	5,770	6,924	5,57,382	0.50	0.91	0.41	45
		WW-HSR-BURAK	BURAK	26000-L	Burak	Sub-Minor	24	8	3,737	4,484	3,60,962	0.50	0.59	0.09	15
		WW-HSR-BANDAHARI	BANDA HERI	9000-R	Burak	Sub-Minor	24	8	3,589	4,307	3,46,714	0.14	0.57	0.43	75
		WW-HSR-ARYA NAGAR(KURRI)	ARYA NAGAR	8825-R	Sarsana	Minor	24	8	8,181	9,817	7,90,269	1.22	1.29	0.07	5
		WW-HSR-BALSAMANDH (Old)	BALSAMAND	0	Ratia Branch	Branch	24	8	11,035	13,242	10,65,981	0	1.74	1.74	100
		WW-HSR-BALSAMANDH (Old)	BALSAMAND	28850-L	Balsamand	Sub-Minor	24	8	11,035	13,242	10,65,981	1.00	1.74	0.74	43
		WW-HSR-KAIMARI	KAIMRI	21415-R	Devsar	Feeder	16	8	8,399	10,079	8,11,360	0.50	1	0.5	50
		WW-HSR-CHAUDHRIWAS	CHAUDHRIWAS	9400	Chaudhariwas	Minor	24	8	5,898	7,078	5,69,779	0.91	0.93	0.02	2
		WW-HSR-KALWAS	KALUWAS	45500-R	Devsar	Feeder	21	7	3,301	3,961	3,18,861	0.42	0.52	0.10	19
		WW-HSR-DEVAN	DEVAN	32800-R	Devsar	Feeder	32	8	2,136	2,563	2,06,322	0.18	0.42	0.24	57

District	Division	Water Works Name	Village Name	O Ro	Irrigation Canal Name	Type of inlet canal(esv)	Canal Closure	Canal Running	Entered Population	Population 2021	Daily water Requirement+15 per cent	Original Discharge	Discharge Required	less sanction	Per cent of less sanction
Rewari	Hisar-2	WW-HSR-KANOH	KANOH	96425-L	Pabra	Distributory	21	7	6,512	7,814	6,29,027	0.20	1.03	0.83	81
		WW-HSR-SIWANI BOLAN	SIWANI BOLAN	14750-L	Dehman	Distributory	21	7	6,760	8,112	6,53,016	0.30	1.07	0.77	72
		WW-HSR-KHERI BARKHI	KHERI BARKI	32300-R	Rana	Distributory	24	8	3,839	4,607	3,70,864	0.28	0.61	0.33	54
		WW-HSR-NANGTHALA	NANGTHALA	130400L	Pabra	Distributory	24	8	10,617	12,740	10,25,570	1.32	1.68	0.36	21
		WW-HSR-GAWAR	GAWAR	4000-R	Gawar	Minor	32	8	2,868	3,442	2,77,081	0.24	0.57	0.33	58
		WW-HSR-CHIROD	CHIROD	57000-L	Devsar	Feeder	32	8	3,044	3,653	2,94,067	0.50	0.60	0.10	17
		WW-HSR-ASSRAWAN	ASSRAWAN	12000-L	Jakhod	Distributory	21	7	2,964	3,557	2,86,339	0	0.47	0.47	100
		WW-HSR-KIRTAN	KIRTAN	27000-L	kabir	Minor	32	8	4,450	5,340	4,29,870	0.63	0.88	0.25	28
		WW-HSR-JAKHOD KHERA	JAKHOD KHERA	17600-R	Siswal No.1	Sub-Minor	21	7	3,647	4,376	3,52,268	0.44	0.58	0.14	24
		WW-HSR-BUGANA	BUGANA	5450-L	Dhansu	Minor	24	8	2,883	3,460	2,78,530	0.20	0.46	0.26	57
		WW-HSR-BEHBALPUR-BARWALA	BAHBALPUR	28000-L	Rana	Distributory	24	8	5,160	6,192	4,98,456	0.60	0.82	0.22	27
		WW-HSR-TALWANDI RANA	TALWANDI RANA	59600-R	Rana	Distributory	24	8	5,740	6,888	5,54,484	0.14	0.91	0.77	85
		WW-HSR-SATROD KALAN	SATROD KALAN	64368-L	Balsamand	Sub-Branch	24	8	11,932	14,318	11,52,599	0.33	1.88	1.55	82
		WW-HSR-RAIPUR-HISAR-I	RAIPUR	56200-L	Balsamand	Sub-Branch	24	8	5,000	6,000	4,83,000	0.25	0.79	0.54	68
		WW-HSR-MIRJAPUR-HISAR-I	MIRZAPUR	1000-R	Mirzapur	Minor	32	8	5,000	6,000	4,83,000	0.60	0.99	0.39	39
		WW-HSR-BANBHORI	BANBHORI	70000-L	Chaudhary	Minor	24	8	4,407	5,288	4,25,684	0.39	0.70	0.31	44
		WW-RWR-SHABAZPUR KHALSA	SAHBAJ PUR KHALSA	1.760/L	Jandwala	Distributory	27	7	1,729	2,075	1,67,038	0	0.33	0.33	100
	Rewari-I														

## Appendix-13

(Reference: Paragraph 4.2.2; Page 31)

Cases with less capacity of Storage and Sedimentation Tanks where water requirement is 55 LPCD

District	Division Name	Water works Name	Village Name	Original Discharge	Discharge required	Canal Running	Canal Closure	Entered Population	Population 2021	Daily water Requirement+ 15 per cent	S&S tank Capacity	Water requirement during closing day + 15 per cent	less capacity	Per cent
Rohtak	Rohtak PHED No. 1	WW-ROH-BALAND-2	BALAND	1.69	0.88	8	24	7,129	8,555	5,41,104	81,43,230	1,29,86,490	48,43,260	37
		WW-ROH-DOBH	DOBH	1.00	0.45	8	24	3,628	4,354	2,75,391	23,44,566	66,09,372	42,64,806	65

Appendix-14

(Reference: Paragraph 4.2.2; Page 31)

Cases with less capacity of Storage and Sedimentation Tanks where water requirement is 70 LPCD

District	Division Name	Water works Name	Village Name	Original Discharge	Discharge required	Canal Running	Canal Closure	Entered Population	Population 2021	Daily water Requirement+ 15 per cent	S&S tank Capacity	Water requirement during closing day + 15 per cent	less capacity	Per cent
Fatehabad	PHED	WW-FTB-BADOPAL OLD WW	BADOPAL	0.48	0.55	15	15	7,000	8,400	6,76,200	30,25,000	1,01,43,000	71,18,000	70
		WW-FTB-BANAWALI SOTTAR Canal Based	BANAWALI SOTTAR	0.51	0.16	15	15	2,000	2,400	1,93,200	3,14,604	28,98,000	25,83,396	89
		WW-FTB-BIGHAR	BIGHAR	0.45	0.47	15	15	6,000	7,200	5,79,600	67,49,050	86,94,000	19,44,950	22
		WW-FTB-DHANI MUSAWALI	MUSSAHALI	1.26	0.65	15	15	8,178	9,814	7,90,027	80,75,298	1,18,50,405	37,75,107	32
		WW-FTB-GORAKH PUR-BHUNA	GORAKHPUR	0.36	1.03	15	15	13,068	15,682	12,62,401	1,75,12,710	1,89,36,015	14,23,305	8
		WW-FTB-JANDWALA SOTTAR(NEW)	JANDWALA SOTTAR	0.80	0.22	15	15	2,800	3,360	2,70,480	22,70,700	40,57,200	17,86,500	44
		WW-FTB-M P ROHI	MOHAMMAD PUR ROHI	0.57	0.47	15	15	6,000	7,200	5,79,600	85,47,962	86,94,000	1,46,038	2
		WW-FTB-MEHUWALA	MEHUWALA	2.25	0.31	30	8	6,253	7,504	6,04,072	43,14,383	48,32,576	5,18,193	11
		WW-HSR-BADALA-HANSI-II	BADALA	0.50	0.77	8	24	4,856	5,827	4,69,074	33,73,053	1,12,57,764	78,84,711	70
		WW-HSR-BHAKLANA I	BHAKLANA	1.00	0.69	8	24	4,388	5,266	4,23,913	34,99,250	1,01,73,912	66,74,662	66
Hisar	PHED	WW-HSR-BHATLA	BHATLA	0.08	0.92	8	24	5,848	7,018	5,64,949	1,18,29,503	1,35,58,776	17,29,273	13
		WW-HSR-Dhani Pirwali	DHANI PEERANWALI	0.86	1.58	8	24	10,000	12,000	9,66,000	93,61,333	2,31,84,000	1,38,22,667	60
		WW-HSR-GHIRAI	GHIRAI	1.76	0.83	8	16	7,023	8,428	6,78,454	22,16,050	1,08,55,264	86,39,214	80
		WW-HSR-KHERI GANGAN	KHERI GAGAN	0.30	0.53	8	24	3,361	4,033	3,24,657	64,77,000	77,91,756	13,14,756	17
		WW-HSR-KUTABPUR-HANSI-I	KUTABPUR	1.15	0.68	8	24	4,300	5,160	4,15,380	95,45,000	99,69,120	4,24,120	4
		WW-HSR-MADAN HERI	MADAN HERI	1.00	0.79	8	24	4,974	5,969	4,80,505	1,06,02,000	1,15,32,108	9,30,108	8
		WW-HSR-MAJAD	MAZOD	0.47	0.40	8	24	2,537	3,044	2,45,042	49,56,700	58,81,008	9,24,308	16
		WW-HSR-SINGHWA KHASS	SINGHWA KHAS	1.56	0.78	8	24	4,962	5,954	4,79,297	96,61,066	1,15,03,128	18,42,062	16
		WW-HSR-SISAR	SISAR	1.00	0.64	8	24	4,047	4,856	3,90,908	75,16,800	93,81,792	18,64,992	20
		WW-HSR-SULCHANI	SULCHANI	1.16	0.55	8	24	3,478	4,174	3,36,007	62,72,070	80,64,168	17,92,098	22



District	Division Name	Water works Name	Village Name	Original Discharge	Discharge required	Canal Running	Canal Closure	Entered Population	Population 2021	Daily water Requirement+ 15 per cent	S&S tank Capacity	Water requirement during closing day + 15 per cent	less capacity	Per cent
Hisar PHED No. 1		WW-FTB-CHULI KHURD(HISAR)	CHULI KHURD	0.00	0.36	7	21	2,299	2,759	2,22,100	2,70,000	46,64,090	43,94,090	94
		WW-HSR-2nd w/w Sadalpur	SADELPUR	0.75	2.85	8	32	14,415	17,298	13,92,489	2,06,05,698	4,45,59,648	2,39,53,950	54
		WW-HSR-BALSAMANDH (Old)	BALSAMAND	0.00	3.48	8	24	11,035	13,242	10,65,981	2,18,37,000	2,55,83,544	37,46,544	15
		WW-HSR-BANDAHARI	BANDA HERI	1.00	3.48	8	24	11,035	13,242	10,65,981	2,18,37,000	2,55,83,544	37,46,544	15
		WW-HSR-BHANA-AGROHA	BHANA	0.14	0.57	8	24	3,589	4,307	3,46,714	25,06,000	83,21,124	58,15,124	70
		WW-HSR-BURAK	BURAK	0.57	0.65	8	24	4,094	4,913	3,95,497	83,66,340	94,91,916	11,25,576	12
		WW-HSR-CHIROD	CHIROD	0.50	0.59	8	24	3,737	4,484	3,60,962	85,39,000	86,63,088	1,24,088	1
		WW-HSR-DAROLI	DAROLI	0.50	0.60	8	32	3,044	3,653	2,94,067	11,07,000	94,10,128	83,03,128	88
		WW-HSR-Hisar-Civil Aviation Club Hsr	AMBLI	0.11	0.52	8	24	3,310	3,972	3,19,746	72,25,480	76,73,904	4,48,424	6
		WW-HSR-JAGAN	JAGAN	0.35	0.25	8	16	2,152	2,582	2,07,851	33,07,837	33,25,616	17,779	1
		WW-HSR-LANDHARI	LANDHARI	1.20	0.58	8	32	2,926	3,511	2,82,636	61,97,560	90,44,336	28,46,776	31
		WW-HSR-SARANGPUR-AGROHA	SUKHLAMBRAN	0.50	0.91	8	24	5,770	6,924	5,57,382	1,33,66,883	1,33,77,168	10,285	0
		WW-HSR-SANDOL	SANDOL	1.00	0.22	8	24	1,387	1,664	1,33,952	27,53,802	32,14,848	4,61,046	14
		WW-HSR-SARANGPUR-AGROHA	SARANGPUR	0.35	0.62	8	24	3,957	4,748	3,82,214	86,06,886	91,73,136	5,66,250	6
		WW-HSR-BADON BRAHMAN	BADON	0.43	0.43	8	32	2,155	2,586	2,08,173	61,14,018	66,61,536	5,47,518	8
		WW-HSR-BANBHORI	BANBHORI	0.39	0.70	8	24	4,407	5,288	4,25,684	61,14,018	1,02,16,416	41,02,398	40
Hisar PHED No. 2		WW-HSR-BHANI BADSHAPUR	BHANI BADSHAPUR	0.58	0.53	8	24	3,387	4,064	3,27,152	64,84,482	78,51,648	13,67,166	17
		WW-HSR-BHERI AKBARPUR	BHAIRI AKBARPUR	0.71	0.77	8	24	4,892	5,870	4,72,535	91,39,180	1,13,40,840	22,01,660	19
		WW-HSR-BIANA KHERA	BIANA KHERA	0.48	0.63	8	24	3,965	4,758	3,83,019	25,89,988	91,92,456	66,02,468	72
		WW-HSR-BITHMARA	BITHMARA	2.39	1.79	8	24	11,311	13,573	10,92,627	2,31,18,249	2,62,23,036	31,04,787	12
		WW-HSR-BOBUA	BOBUA	0.75	0.81	8	24	5,158	6,190	4,98,295	87,16,800	1,19,59,080	32,42,280	27
		WW-HSR-CHARNAUND	CHARNAUND	2.00	0.17	8	24	1,087	1,304	1,04,972	7,50,000	25,19,328	17,69,328	70
		WW-HSR-DHANSU	DHANSU	0.52	1.30	8	24	8,248	9,898	7,96,789	1,41,10,660	1,91,22,936	50,12,276	26
		WW-HSR-DOLATPUR	DAULATPUR	0.88	0.93	8	24	5,890	7,068	5,68,974	1,14,01,048	1,36,55,376	22,54,328	17
		WW-HSR-GAIBIPUR	GAIBIPUR	0.92	0.90	8	24	5,693	6,832	5,49,976	1,18,38,792	1,31,99,424	13,60,632	10
		WW-HSR-KHEDER	KHEDAR	0.27	2.98	8	24	9,447	11,336	9,12,548	1,84,25,954	4,38,02,304	2,53,76,350	58



District	Division Name	Water works Name	Village Name	Original Discharge	Discharge required	Canal Running	Canal Closure	Entered Population	Population 2021	Daily water Requirement+ 15 per cent	S&S tank Capacity	Water requirement during closing day + 15 per cent	less capacity	Per cent
		WW-HSR-KHOKHA	KHOKHA	1.80	0.39	8	24	2,490	2,988	2,40,534	51,07,500	57,72,816	6,65,316	12
		WW-HSR-LITANI	LITANI	0.40	0.96	8	24	6,070	7,284	5,86,362	1,32,46,471	1,40,72,688	8,26,217	6
		WW-HSR-PANHARI	PANHARI	0.93	0.70	8	24	4,459	5,351	4,30,756	92,70,112	1,03,38,132	10,68,020	10
		WW-HSR-PARBHUWALA	PARBHUWALA	0.90	1.01	8	24	6,386	7,663	6,16,872	1,45,49,065	1,48,04,916	2,55,851	2
		WW-HSR-RAJLI	RAJLI	0.70	1.28	8	24	8,089	9,707	7,81,414	1,39,09,424	1,87,53,924	48,44,500	26
		WW-HSR-SAHU	SAHU	0.11	0.54	8	24	3,448	4,138	3,33,109	75,22,213	79,94,616	4,72,403	6
		WW-HSR-SATROD KALAN	SATROD KALAN	0.33	1.88	8	24	11,932	14,318	11,52,599	2,30,75,963	2,76,62,376	45,86,413	17
		WW-HSR-SULKHANI	SULKHANI	0.50	0.43	8	24	2,751	3,301	2,65,731	5,88,725	63,77,532	57,88,807	91
		WW-HSR-SUREHERA	SARHERA	0.54	0.43	8	24	2,695	3,234	2,60,337	60,23,104	62,48,088	2,24,984	4
		WW-HSR-SUREWALA	SUREWALA	0.37	0.60	8	24	3,799	4,559	3,67,000	82,86,408	88,07,988	5,21,580	6
		WW-RWR-DAHINA New	DAHINA	1.27	1.27	7	24	7,246	8,695	6,99,948	49,15,200	1,67,98,740	1,18,83,540	71
	Kosli PHED	WW-RWR-MUNDI	MUNDI	2.47	0.50	8	24	3,163	3,796	3,05,578	63,72,325	73,33,872	9,61,547	13
Fatehabad	Tohana PHED	WW-FTB-KANHERI	KANHERI	1.89	0.98	8	24	6,207	7,448	5,99,564	46,06,000	1,43,89,536	97,83,536	68
		WW-FTB-LADHUWAS	LUDHUWAS	1.26	0.20	16	16	2,505	3,006	2,41,983	16,720	38,71,728	38,55,008	100
		WW-FTB-NAGPUR	NAGPUR	1.47	1.07	8	24	6,748	8,098	6,51,889	1,15,65,758	1,56,45,336	40,79,578	26
		WW-FTB-NANGAL-RATIA	NANGAL	0.49	0.34	15	15	4,279	5,135	4,13,368	28,19,681	62,00,513	33,80,832	55

## Appendix-15

(Reference: Paragraph 4.5.1; Page 36)

## Details of water connections in HSVP

Name of District	Total Consumer (a=b+c+f+i)	Domestic Beneficiary				Other than Domestic Beneficiary			
		No. of Connections (b=c+d)	Metered Connection (c)	Unmetered connection (d)	Illegal Connection (e)	No. of Connection (f=g+h)	Metered Connection (g)	Unmetered connection (h)	Illegal Connection (i)
Hisar	15,454	14,681	13,142	1,539	0	773	594	179	0
Panchkula	32,493	30,186	15,517	14,671	0	2,307	1,728	577	0
Faridabad	5,583	4,950	586	4,364	0	633	218	415	0
Rewari	6,541	6,529	6,529	0	0	12	12	0	0
Rohtak	7,944	7,755	7,755	0	26	162	162	0	1
Karnal	16,815	15,793	6,149	9,644	553	407	184	223	62
Fatehabad	700	674	625	49	0	26	21	5	0
<b>Total</b>	<b>85,530</b>	<b>80,568</b>	<b>50,303</b>	<b>30,267</b>	<b>579</b>	<b>4,320</b>	<b>2,919</b>	<b>1,399</b>	<b>63</b>

**Appendix-16**  
**(Reference: Paragraph 5.1.1; Page 43)**  
**Adverse bacteriological examination reports (Total Coliform Bacteria) by PHED and SRI laboratory**

Sr. No.	Name of office/department	Name of location	Rural/Urban (R/U)	Results of PHED	Results of SRI
1	HSVP, Panchkula	Tubewell no. S-6	U	15	NIL
2	HSVP, Panchkula	Tubewell no., KV-5	U	210	NIL
3	PHED, Kurukshetra	Thana	R	1,100	NIL
4	PHED Kurukshetra	Kalwa	R	14	NIL
5	PHED-2, Rohtak	Meham	R	75	NIL
6	PHED-1, Rohtak	Katesara	R	460	NIL
7	PHED-1, Hisar	Kabrel	R	240	NIL
8	PHED-1, Karnal	Mound	R	23	NIL
9	HSVP, Karnal	Sector-4 TN, Tubewell no. 1	U	1,100	NIL
10	M.C. Karnal	Gogipur phatak	U	75	NIL
11	PHED-1, Rewari	Khaleta	R	120	NIL
12	PHED, Faridabad	Bada Gaon, Kasturba Sewa Sadan	R	210	37
13	PHED-1, Rewari	Khijuri	R	1,100	NIL
14	M.C. Faridabad	Village Anangpur, Near Manoj Badhana Office, Ward no. 18	U	NIL	23
15	M.C. Faridabad	3 B-Park	U	1,100	30
16	M.C. Faridabad	Tubewell 18/16, Labour chowk	U	43	41
17	M.C. Faridabad	Geeta Bhawan, Ashoka 1	U	75	28
18	M.C. Faridabad	Bhagat Singh Colony, Ballabhgarh	U	43	NIL
19	M.C. Faridabad	Chauhan Chakki, Jawahar Colony, Khand	U	120	NIL
20	M.C. Faridabad	15 B, 2 NIT, Mujeshar, Ward 2, Rajiv Gandhi Colony	U	150	NIL
<b>Acceptable limit: Not detectable, Permissible Limit: Not detectable</b>					

**Appendix-17**  
**(Reference: Paragraph 5.1.1; Page 43)**  
**Adverse physical & chemical water sampling report by PHED laboratory**

Sr. No.	Name of department	Name of location	Rural/ Urban (R/U)	Name parameter	Acceptable limit	Permissible limit (As per IS 10500:2012)	Results of PHED laboratory
1.	M.C. Faridabad	Tubewell 18/16, labour chowk	U	Total Hardness	200 mg/l	600 mg/l	620.00
2.	M.C. Faridabad	Geeta Bhawan, Ashoka-1	U	Total Dissolved Solids	500 mg/l	2000 mg/l	2,976.00
				Total Hardness	200 mg/l	600 mg/l	910.00
				Calcium	75 mg/l	200 mg/l	216.00
3.	M.C. Faridabad	Bhagat Singh Colony, Ballabhgarh	U	Total Dissolved Solids	500 mg/l	2000 mg/l	2,654.00
				Total Hardness	200 mg/l	600 mg/l	750.00
4.	M.C. Faridabad	Chauhan Chakki, Jawahar Colony, Khand	U	Total Dissolved Solids	500 mg/l	2000 mg/l	8,230.00
				Total Hardness	200 mg/l	600 mg/l	2,700.00
				Calcium	75 mg/l	200 mg/l	520.00
				Magnesium	30 mg/l	100 mg/l	336.00
				Chloride	250 mg/l	1000 mg/l	3,337.00
				Nitrate	45 mg/l	No Relaxation	55.00
5.	M.C. Faridabad	15 B, 2-NIT, Industrial Area Road, Mujeshar, Ward 2, Rajiv Gandhi Colony	U	Total Dissolved Solids	500 mg/l	2000 mg/l	3,908.00
				Total Hardness	200 mg/l	600 mg/l	1,370.00
				Calcium	75 mg/l	200 mg/l	260.00
				Magnesium	30 mg/l	100 mg/l	172.80
				Chloride	250 mg/l	1000 mg/l	1,491.00
6.	M.C. Faridabad	3 B Park		Alachlor	20 ug/l		102.00
7.	M.C. Faridabad	Geeta Bhawan, Ashoka-1		Dieldrin	0.03 ug/l		0.05

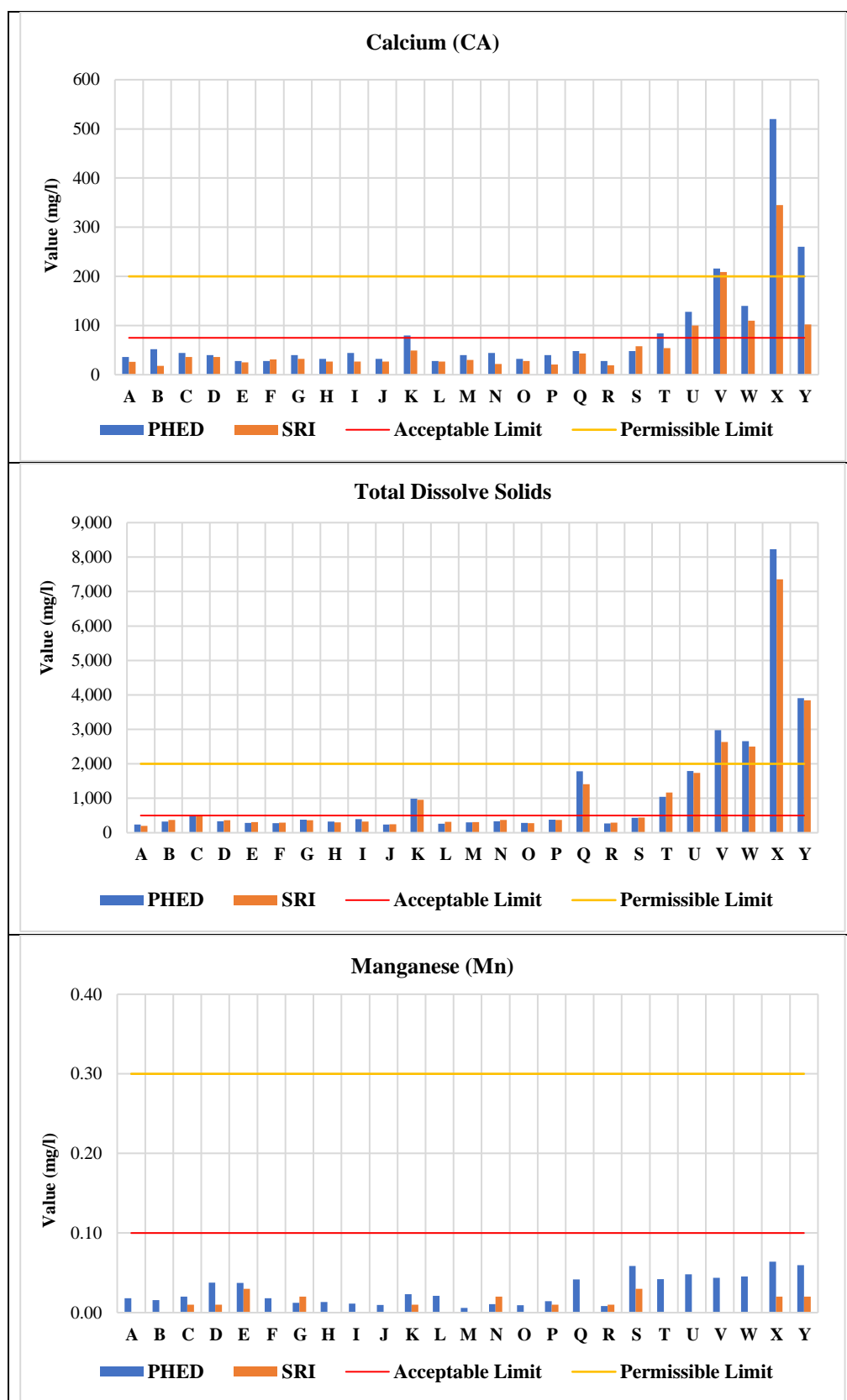
## Adverse physical &amp; chemical water sampling report by SRI laboratory

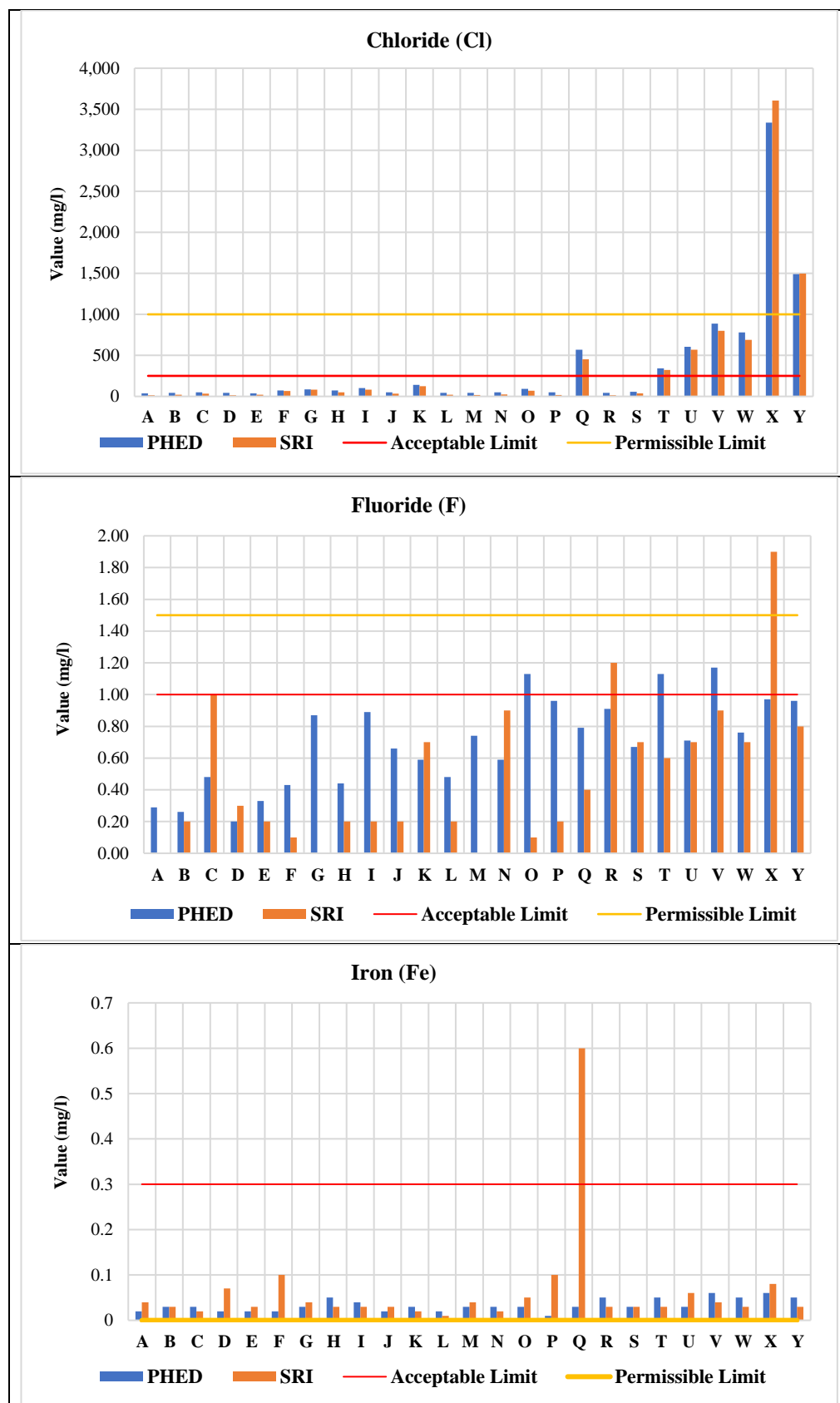
Sr. No.	Name of department	Name of location	Rural/ Urban (R/U)	Name parameter	Acceptable limit	Permissible limit (As per IS 10500:2012)	Results of SRI
1.	M.C. Faridabad	3B-Park	U	Nitrate	45 mg/l	No relaxation	70
2.	M.C. Faridabad	Geeta Bhawan, Ashoka-1	U	Total Dissolved Solids	500 mg/l	2000 mg/l	2,632
				Calcium	75 mg/l	200 mg/l	209
				Nitrate	45 mg/l	No relaxation	47
				Sulphate	200 mg/l	400 mg/l	434
3.	M.C. Faridabad	Bhagat Singh Colony, Ballabgarh	U	Total Dissolved Solids	500 mg/l	2000 mg/l	2,500
				Magnesium	30 mg/l	100 mg/l	129
				Nitrate	45 mg/l	No relaxation	72
				Sulphate	200 mg/l	400 mg/l	472
				Total Alkalinity	200 mg/l	600 mg/l	624
				Total Hardness	200 mg/l	600 mg/l	812
4.	M.C. Faridabad	Chauhan Chakki, Jawahar Colony, Khand	U	Total Dissolved Solids	500 mg/l	2000 mg/l	7,352
				Calcium	75 mg/l	200 mg/l	345
				Chloride	250 mg/l	1000 mg/l	3,605
				Fluoride	1.0 mg/l	1.5 mg/l	1.9
				Magnesium	30 mg/l	100 mg/l	392
				Nitrate	45 mg/l	No relaxation	155
				Sulphate	200 mg/l	400 mg/l	620
				Total Hardness	200 mg/l	600 mg/l	2,498
5.	M.C. Faridabad	15 B, 2-NIT, Industrial Area Road, Mujeshar, Ward 2, Rajiv Gandhi Colony	U	Total Dissolved Solids	500 mg/l	2000 mg/l	3,845
				Chloride	250 mg/l	1000 mg/l	1,496
				Magnesium	30 mg/l	100 mg/l	213
				Nitrate	45 mg/l	No Relaxation	120
				Total Alkalinity	200 mg/l	600 mg/l	676
				Total Hardness	200 mg/l	600 mg/l	1,141

**Appendix-18****(Reference: Paragraph 5.1.1; Page 44)****Comparison of common parameter tested in both the laboratories**

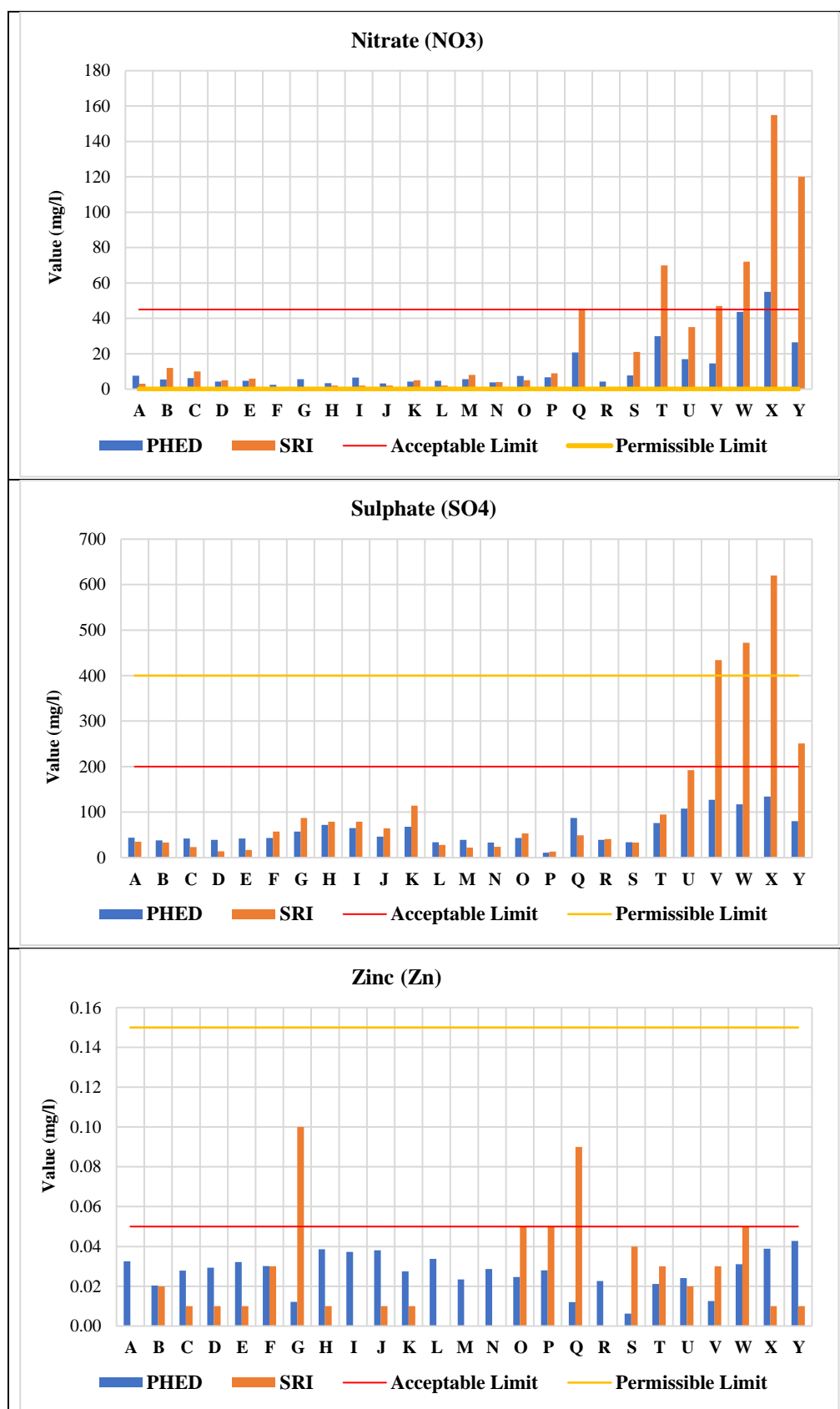
Each location depicted in Paragraph 5.1.1 has been denoted by alphabets in following charts:

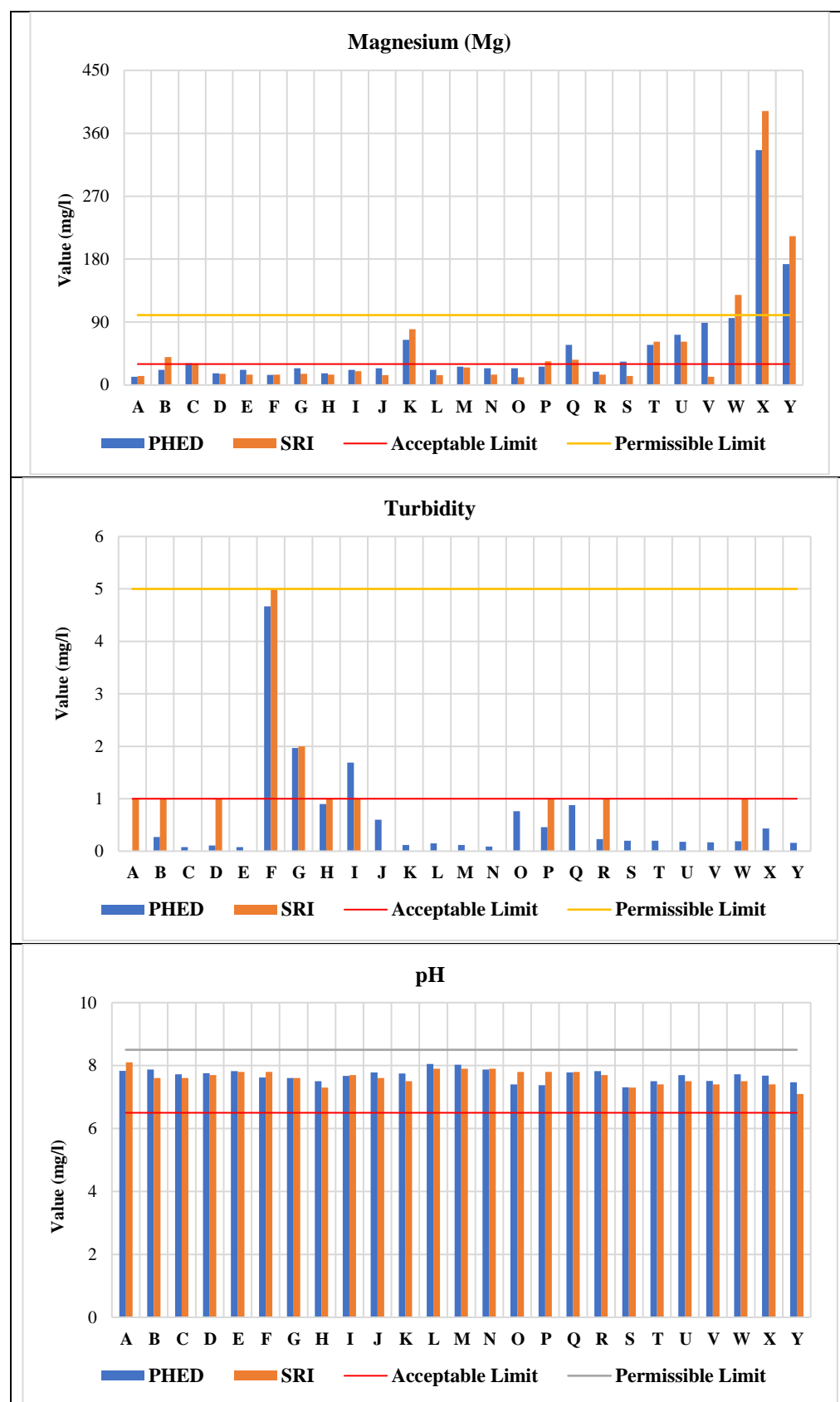
<b>Sr. No.</b>	<b>Name of location</b>	<b>Alphabet</b>
1.	T/w no. S-6, HSVP, Panchkula	A
2.	T/w no. KV-5, HSVP, Panchkula	B
3.	Thana, PHED, Kurukshetra	C
4.	Kalwa, PHED, Kurukshetra	D
5.	Sector-2, T/w no. 1, HSVP, Kurukshetra	E
6.	Meham, PHED, Rohtak	F
7.	Katesra, PHED, Rohtak	G
8.	Sahu, PHED, Hisar	H
9.	Kabrel, PHED, Hisar	I
10.	Kot Khurd, PHED, Hansi	J
11.	Mound, PHED, Karnal	K
12.	Kalsora, PHED, Karnal	L
13.	Sector-4 TN, T/w no. 1, HSVP, Karnal	M
14.	Godipur Phatak, SDO, Public Health, M.C. Karnal	N
15.	Khaleta, PHED, Rewari	O
16.	Karandi, PHED, Fatehabad	P
17.	Bara Gaon (Kasturba Sewa Sadan), PHED, Faridabad	Q
18.	Khijuri, PHED, Rewari	R
19.	Vill. Anagpur Near Manoj Bhdana Office, Ward no. 18, MC Faridabad	S
20.	3 B-Park, MC Faridabad	T
21.	T/w no. 18/16, Labour Chowk, MC Faridabad	U
22.	Geeta Bhawan, Ashoka-1, MC Faridabad	V
23.	Bhagat Singh Colony, BLB, MC Faridabad	W
24.	Chauhan Chakki, Jawahar Colony, Khand, MC Faridabad	X
25.	15 B, 2 NIT, Industrial Area Road Mujeshar, Ward-2, Rajiv Gandhi Colony, MC Faridabad	Y

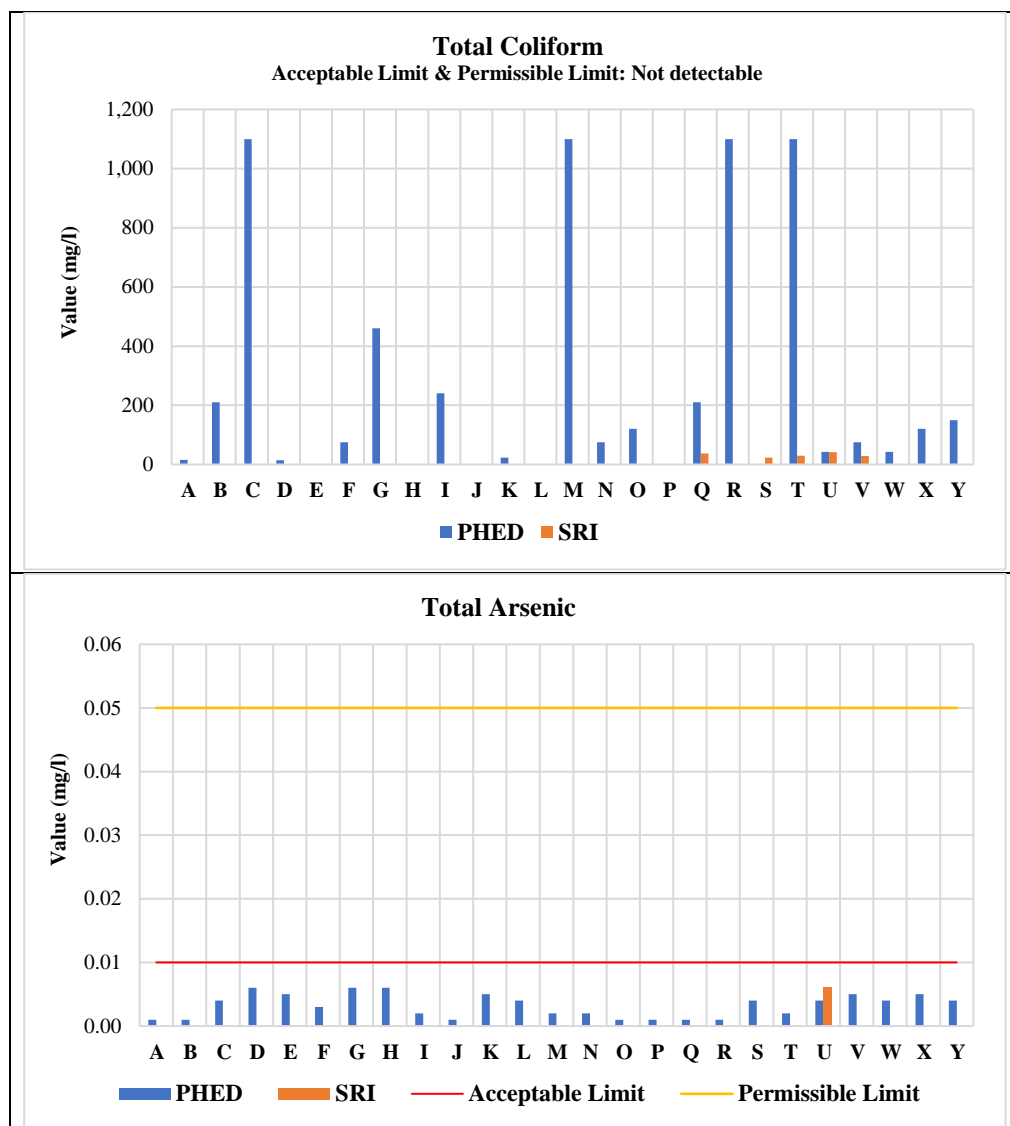












**Appendix-19****(Reference: Paragraph 5.2; Page 44)****Details of water samples tested in selected districts**

Name of laboratory	Physical & Chemical water sample testing for the year 2016-17 to 2020-21				Bacteriological water sample testing for the year 2016-17 to 2020-21			
	Total sample tested	Fit sample	Unfit sample	Per cent of unfit sample	Total sample tested	Fit sample	Unfit sample	Per cent of unfit sample
State lab Karnal	10,101	10,062	39	0.39	17,100	14,983	2,117	12.38
Sub-divisional lab Assandh	--	--	--	--	11,795	11,080	715	6.06
Sub-divisional lab Indri	--	--	--	--	4,968	4,619	349	7.02
District lab Panchkula	2,345	2,340	5	0.21	21,667	20,987	680	3.14
Sub-divisional lab, Kalka	--	--	--	--	22,728	22,278	450	1.98
District lab Fatehabad	461	430	31	6.72	16,323	15,504	819	5.02
Sub-divisional lab, Tohana	1,430	1,401	29	2.03	18,131	17,820	311	1.72
District lab, Rewari	2,293	1,943	350	15.26	13,011	12,720	291	2.24
Sub-divisional lab, Kosli	527	522	5	0.95	13,012	12,990	22	0.17
District lab, Faridabad	5,049	4,388	661	13.09	11,176	9,877	1,299	11.62
District lab, Rohtak	1,060	789	271	25.57	18,182	16,083	2,099	11.54
District lab, Hisar	559	424	135	24.15	20,081	17,169	2,912	14.50
Sub-divisional lab, Hansi	--	--	--	--	13,111	11,620	1,491	11.37
District lab, Kurukshetra	4,173	4,168	5	0.12	16,628	14,947	1,681	10.11
Sub-divisional lab, Pehowa	2,385	2,385	0	0	15,729	14,392	1,337	9.29

## Appendix-20

(Reference: Paragraph 5.8; Page 52)

## Staff position at District Level Water Testing Laboratories

Name of post		Name of District							
		Hisar	Kurukshetra	Rewari	Fatehabad	Rohtak	Faridabad	Panchkula	Total position
Chemist/Water Analyst	Actual	1	1	0	1	1	1	1	6
	Shortage	0	0	1	0	0	0	0	1
	Percentage of shortage	-	-	100	-	-	-	-	
Microbiologist	Actual	0	0	0	0	0	0	0	0
	Shortage	1	1	1	1	1	1	1	7
	Percentage of shortage	100	100	100	100	100	100	100	
Laboratory Assistant	Actual	1	0	0	0	1	0	0	2
	Shortage	1	2	2	2	1	2	2	12
	Percentage of shortage	50	100	100	100	50	100	100	
Lab Attendant	Actual	0	0	0	0	1	0	1	2
	Shortage	1	1	1	1	0	1	0	5
	Percentage of shortage	100	100	100	100	-	100	-	
Data Entry Operator	Actual	0	0	1	0	1	0	0	2
	Shortage	1	1	0	1	0	1	1	5
	Percentage of shortage	100	100	-	100	-	100	100	
Field Assistant (task/need based field staff)	Actual	0	0	0	0	0	0	0	0
	Shortage	2	2	2	2	2	2	2	14
	Percentage of shortage	100	100	100	100	100	100	100	

## Staff position at Sub Divisional Level Water Testing Laboratories

Name of post		Sub-divisional labs situated at							
		Assandh	Indri	Hansi	Kosli	Kalka	Pehowa	Tohana	Total position
Junior Chemist	Actual	0	0	0	0	0	0	0	0
	Shortage	1	1	1	1	1	1	1	7
	Percentage of shortage	100	100	100	100	100	100	100	
Junior Microbiologist	Actual	0	0	0	0	0	0	0	0
	Shortage	1	1	1	1	1	1	1	7
	Percentage of shortage	100	100	100	100	100	100	100	
Laboratory Assistant	Actual	0	0	0	0	0	0	1	1
	Shortage	1	1	1	1	1	1	0	6
	Percentage of shortage	100	100	100	100	100	100	-	
Lab Attendant	Actual	0	0	0	0	0	0	0	0
	Shortage	1	1	1	1	1	1	1	7
	Percentage of shortage	100	100	100	100	100	100	100	
Data Entry Operator	Actual	0	0	0	0	0	0	0	0
	Shortage	1	1	1	1	1	1	1	7
	Percentage of shortage	100	100	100	100	100	100	100	
Field Assistant (task/need based field staff)	Actual	0	0	0	0	0	0	0	0
	Shortage	1	1	1	1	1	1	1	7
	Percentage of shortage	100	100	100	100	100	100	100	

**Note:** Additional charge given to various official has not been considered as regular posting, hence shown as shortage.

**Appendix-21****(Reference: Paragraph 5.11; Page 57)****Details of quality affected habitations**

Name of District	Name of Block	Name of Habitation	Parameter Name	Contaminated in year				
Hisar	Adampur	Adampur	Fluoride	2018-19		2019-20	2020-21	
	Adampur	Kabrel	TDS	-		2019-20	2020-21	
	Adampur	Kohli	Fluoride	-		2019-20	2020-21	
	Adampur	MandiAdampur	Fluoride	2018-19		2019-20	-	
	Adampur	Telanwali	Fluoride	-		2019-20	2020-21	
	Hansi-I	Muzadpur	Fluoride	2018-19		2019-20	-	
	Narnaund	Kagsar	Fluoride	2018-19		2019-20	-	
	Hansi-II	Bhaklana	Fluoride	-		2019-20	2020-21	
Rewari	Bawal	Banipur	Fluoride	2016-17	2017-18	-	-	-
		Bhagwanpur	Fluoride	2016-17	2017-18	-	-	-
		Lalpur	Fluoride	2016-17	-	-	-	2020-21
		Mohmadpur	Fluoride	2016-17	2017-18	-	-	-
		Sahapur	Fluoride	2016-17	2017-18	-	-	-
		Shekhpur	Fluoride	2016-17	2017-18	-	-	-
		Suba Sheri	Fluoride	2016-17	2017-18	-	-	-
		GujarMajri	Fluoride	-	2017-18	-	-	2020-21
		Mangleshwar	Fluoride	-	2017-18	-	-	2020-21
	Khol at Rewari	Dehlawas	Fluoride	2016-17	2017-18	-	-	-
		Nandha	Fluoride	2016-17	-	-	-	2020-21
	Rewari	Bariawas	Fluoride	2016-17	-	-	-	2020-21
		Konsiwas	Fluoride	2016-17	-	-	-	2020-21
		Nayagaon	Fluoride	2016-17	2017-18	-	-	-
		Padianwas	Fluoride	2016-17	-	-	-	2020-21
		Saharanwas	Fluoride	2016-17	-	-	-	2020-21
	Jatusana	Sihas	Fluoride	-	2017-18	-	2019-20	-

## Appendix-22

(Reference: Paragraph 5.12; Page 57)

## Fluoride affected habitation with their installation and result of water testing

Sr. No.	Name of installation	Date of sample	Result	Electricity meter account no.	Electricity bill attached for the month of
1	T/W at Ajeet Nagar, Aherwan	16 February 2017	2.4	AHPW-0004-A	March 2020, March 2017, March 2019
	T/W at Ajeet Nagar, Aherwan	16 February 2018	2.4	AHPW-0004 New acc no. 769466100	March 2022
2	T/W at Majra and D/Majra	26 February 2018	2.3	MJPW-0003-A	March 2020, March 2016, March 2017, March 2019, March 2022
	T/W at Majra	29 April 2019	2.01	MJPW-0002-A	March 2017, March 2019, March 2022
3	T/W at Noorki Ahli	18 June 2018	2.49	NFPW-0002-P	March 2020, Feb 2021, March 2022
	T/W at Noorki Ahli	21 May 2021	1.6	NFPW-0001-A	March 2020, Feb 2021, March 2016, March 2022
4	T/W at Boosting Station, Daulatpur	27 November 2019	2.4	DAPH-0001-A	March 2020, March 2016, March 2017, March 2019 March 2022
				DAPH-0002-A	March 2020, March 2016, March 2017, March 2019, March 2022
5	T/W Dhani Binja Lamba	13 April 2020	1.92	JVPW-0004-L	March 2020, Feb 2021, March 2017, March 2022
	T/W Dhani BinjaLamba	15 June 2020	1.94	JVPW-0002	March 2022
6	T/W at Hanspur	21 June 2018	1.88	BVPW-0002	February 2020, February 2021, May 2022
	T/W at Hanspur	04 June 2020	2.12	BVPW-0003	Information not provided.
	T/W at Hanspur Main Tube Well	21 May 2021	2.1	BVPW-0004	Information not provided.
7	T/W Chanderwal Main Tube Well	16 June 2021	2.52	JAPH-0004A	May 2022
		21 June 2021	2.52	JAPH-0004A	
		22 June 2021	2.52	JAPH-0004A	
8	T/W Hans Colony	09 April 2021	2.5	MAPH-0003A	March 2022
		04 October 2021	1.95	MAPH-0003A	
		12 October 2021	2.9	MAPH-0003A	
9	T/W Karian	18 June 2018	1.8	HKPW0002-A	March 2019, March 2020, March 2021, March 2022

Source: Laboratory reports

\* Fluoride (acceptable limit: 1.0 mg/l and cause for rejection: 1.5 mg/l)

## Appendix-23

(Reference: Paragraph 5.12; Page 58)

## Delayed schemes relating to shifting of source

Name of project	Status as on April-May 2022	Brief summary
Estimate for providing canal based water works at village Palsar for Group of 3 nos. villages	In progress	Scrutiny of records in EE, PHED, Fatehabad, it was seen that the said work was related to providing canal based water supply to the inhabitants as the tube well based supply was not found potable as per sample testing in May 2018 and again in December 2018. The work was allotted to agency on August 2019 with scheduled completion date of April 2020. The said work was still in progress as on May 2022 and these villages were given tube well based supply till date despite the fact that the ground water had already been declared non-potable by divisional laboratories.
Providing Independent canal based water works Bhunderwas	In progress	Scrutiny of records <sup>1</sup> , it was seen that the estimate for the work “ <i>Providing Independent canal based water works Bhunderwas</i> ” was administratively approved (February 2019) for ₹ 329.61 lakh. The village was provided tube well based supply and the estimate was framed to provide canal based water supply to the inhabitants of the village. The work was allotted (August 2019) for an amount of ₹154.42 lakh with date of commencement of 8 August 2019 to be completed in 12 months (7 August 2020). It was observed that the work was not complete even after lapse of more than 21 months from the scheduled date of completion and after incurring an expenditure of ₹ 90.02 lakh (21 <sup>st</sup> RA bill). Thus, the inhabitants are deprived of the benefits of getting canal based water supply and instead of tube well based water supply.
Providing canal based water supply scheme Ibrahimpur group of 17 nos. villages in district Rewari	In progress	Para 12.3.2 states that divisional officer immediately after taking over the land shall get it mutated in favour of the department and get the entry made in jamabandi also. During scrutiny of records <sup>2</sup> , it was seen that an estimate amounting to ₹ 36.02 crore was prepared for “ <i>Providing canal based water supply scheme Ibrahimpur group of 17 nos. villages in district Rewari</i> ” which was administratively approved in April 2018. The work was allotted (October 2018) for ₹ 11.71 crore with a scheduled completion date of October 2019 (12 months from date of start). Audit observed that the 65 per cent work was completed by February 2021 and ₹ 5.30 crore had been paid to the agency (November 2021). The reasons for delay was that the land on which main water works were to be constructed were relocated from proposed site of Ibrahimpur to Kheri Murar which also could not be taken on board as the land given by Panchayat in the year 2005 for construction of water works was not got mutated timely by PHED in favour of department. Resultantly the Panchayat objected and demanded to free the Panchayat land from PHED. Thus due to lackadaisical approach of the department canal based water supply could not be provided to habitants of these 17 villages despite incurring an expenditure of ₹ 5.30 crore.
Behbalpur village	In Progress	Principal Secretary to GoH, Development and Panchayats Department, Chandigarh instructed (January 2013) the Deputy Commissioners that <i>Gair Mumkin Johars</i> or water bodies were not to be diverted to any other use and should be, protected, cleaned and recharged. Scrutiny of records <sup>3</sup> , it was seen that the Behbalpur village was a water quality affected area and the underground water of tube well was found not potable (brackish) as per water sample report as of February 2016. The supply to the village was tube well based and to convert tube well based supply into canal based supply, the Gram Panchayat Behbalpur agreed to provide land free of cost to PHED. As per land record, the said land was <i>Gair mumkin Johar</i> which as per instructions was not to be transferred for any other use. The estimate was sent (July 2017) to Member Secretary, WSSB for arranging its administrative approval for ₹ 318.50 lakh. The tender for the said work was allotted (October 2018) with stipulated completion date of October 2019. Audit observed that agency could not start the work as the land on which work was to be done was not suitable and no other land was available with the Gram Panchayat. Till date, no land is available with the department where the said construction could be carried out. Had the department planned effectively and ensured availability of land for timely completion of work, safe and potable water would have been available to the inhabitants. Further it was seen that department kept on providing non-potable water supply to the inhabitants (June 2020) as the villagers/Sarpanch, GP, Behbalpur complained to the authorities about supply of non-potable water.

<sup>1</sup> EE, PHED, Tohana.

<sup>2</sup> EE, PHED, Rewari.

<sup>3</sup> EE, PHED, Fatehabad.



Appendix-24

(Reference: Paragraph 6.4; Page 63)

Details of Public Grievances/complaints attended by PHE Department

Year	Total no. of complaints received	Total number of complaints attended	Balance	Complaints attended within 24 hrs	Complaints attended between 24 hrs to 72 hrs	Complaints attended more than 72 hrs
2016-17*	6,903	5,872	1,031	1,863	1,909	2,100
2017-18	11,565	11,011	554	2,386	1,420	7,205
2018-19	18,054	17,931	123	2,509	12,225	3,197
2019-20	37,831	37,477	354	3,224	2,142	32,111
2020-21	83,383	83,042	341	12,643	2,755	67,644
<b>Total</b>	<b>1,57,736</b>	<b>1,55,333</b>	<b>2,403</b>	<b>22,625</b>	<b>20,451</b>	<b>1,12,257</b>

\*No record was maintained in Fatehabad division during the year 2016-17

Haryana Shehri Vikas Pradhikaran

Year	Total number of complaints received	Total number complaint attended/ resolved	Balance	Complaints attended within 24 hours	Complaint attended between 24 hours to 72 hours	Complaint attended more than 72 hours
2016-17	689	689	0	253	398	38
2017-18	743	743	0	210	510	23
2018-19	714	714	0	266	415	33
2019-20	576	576	0	252	304	20
2020-21	539	539	0	241	271	27
<b>Total</b>	<b>3,261</b>	<b>3,261</b>	<b>0</b>	<b>1,222</b>	<b>1,898</b>	<b>141</b>

Urban Local Bodies Department

Year	Total number of complaints received	Total number complaint attended/ resolved	Balance	Complaints attended within 24 hours	Complaint attended between 24 hours to 72 hours	Complaint attended more than 72 hours
2016-17	0	0	0	0	0	0
2017-18	1,505	1,505	0	505	1,000	0
2018-19	6,625	6,625	0	845	5,780	0
2019-20	7,698	7,698	0	1,198	6,500	0
2020-21	12,654	12,654	0	3,240	9,414	0
<b>Total</b>	<b>28,482</b>	<b>28,482</b>	<b>0</b>	<b>5,788</b>	<b>22,694</b>	<b>0</b>

**Appendix-25**

**(Reference: Paragraph 6.5; Page 64)**

**Details of source testing in rural areas**

<b>Year</b>	<b>Total number of water sources in rural areas</b>	<b>Source tested</b>	<b>Percentage of source tested</b>
2016-17	1,00,886	16,533	16.38
2017-18	1,00,886	10,931	10.84
2018-19	1,00,886	14,617	14.49
2019-20	1,00,886	15,456	15.32
2020-21	1,00,886	35,647	35.33

**Source: E 20 format of *e-jalshakti***

**Appendix-26**  
**(Reference: Paragraph 6.7.1; Page 65)**  
**Division wise status of works (PHED)**

Name of Division	Total works selected	Work completed on time	Total delayed works	Minimum delay (in months)	Maximum delay (in months)	Remarks
No.1, Hisar	8	2	6	10	31	--
No.2, Hisar	18	5	7	2	42	4 works in progress and 2 works not started.
Hansi	14	3	7	2	37	2 works not started, no record in respect of 1 work and nominal delay in one work.
Fatehabad	6	1	5	0	24	--
Tohana	6	0	6	10	17	--
No.1, Rohtak	9	2	6	6	26	One work in progress schedule completion in July 2022.
No.2, Rohtak	10	7	3	--	--	All work in progress
Rewari	9	4	4	3	19	One work could not be started due to wrong site selection.
Bawal	20	13	7	2	29	--
Kosli	18	0	17	6	14	One work schedule completion is in September 2022.
Faridabad	11	6	4	2	9	No record provided in respect of 1 work.
Kurukshetra	35	7	20	1	18	8 works not started due to site dispute, non-availability of pipes.
No.1, Karnal	20	2	15	2	15	Three works not started due to non-availability of pipes.
No.2, Karnal	18	2	16	3	14	--
Panchkula	19	6	8	4	12	4 works in progress and one agreement is wrongly uploaded.
<b>Total</b>	<b>221</b>	<b>60</b>	<b>131</b>			

## Appendix-27

(Reference: Paragraph 6.7.2; Page 65)

## Status of works of selected divisions of Urban Local Bodies Department, Haryana

Sr. No.	Name of unit	Name of Project	Work started in	Schedule completion in	Delay (in months)	Status of work
1	MC Hisar	Providing water supply system for Civic Amenities and infrastructure Deficient area including villages in Hisar town along with O&M under AMRUT programme	November 2018	February 2020	Work in progress	Incomplete
2	MC Panchkula	for the augmentation of water supply in villages of Municipal Corporation (MC), Panchkula including Distribution system and installation of Tube Wells and Operation & Maintenance	February 2019	April 2020	Work in progress	Incomplete
3	MC Faridabad	The work of providing water supply for civic amenities and infrastructure deficient area in Faridabad Town	December 2018	February 2020	Work in progress	Incomplete
4	MC Rewari	the work of providing water supply for civic amenities and infrastructure deficient area in Rewari Town	November 2018	June 2020	Work in progress	Incomplete
5	MC Rohtak	the work of providing water supply for civic amenities and infrastructure deficient area in Rohtak Town	November 2018	June 2020	Work in progress	Incomplete
6	MC Karnal	the work "Providing & Augmentation of water Supply System in 15 villages of MC Karnal including Distribution system and installation of Tube well and O & M	November 2018	November 2019	17	Complete
7	MC Faridabad	Providing & Laying water supply line in old Faridabad Town to replace the existing collapsed water supply line and new water supply line in those areas where still not provided in Ward No. 29 & 30, Faridabad	December 2018	December 2020	1	Complete
8	MC Faridabad	Provision of 5 Nos. Tube wells bore 280 mm dia by method of (direct rotary) for various locations in Krishana Colony, Ward No.32 Faridabad,	June 2019	December 2019	11	Completed
9	MC Faridabad	Provision of 3 nos. tube wells bore 280 mm dia by method of (direct rotary) and installing of mini tube well bore 4 nos. in ward 34, Faridabad	January 2018	June 2018	23	Completed
10	MC Faridabad	Provision of 5 nos. tube wells bore by method of Engine driven bockey type machine at various places Prem Nagar of ward no. 34, Faridabad	July 2019	December 2019	1	Completed

## Status of water works of selected divisions of Haryana Shehri Vikas Pradhikaran

Sr. No.	Name of unit	Name of Project	Work started in	Schedule completion in	Delay (in months)	Status of work
1	HSVP Hisar	Up-gradation of infrastructure in Industrial sector 27 & 28	January 2019	July 2019	17	Complete
2	HSVP No 1 Division, Panchkula	Providing water supply, Sewerage and SWD Scheme in new planned area of Sector -21 (Part-III) Panchkula	October 2020	July 2021	Work in progress	Incomplete
3	HSVP Rohtak	Construction of RCC U/G CWT, B/S in Sector-3, Rohtak	August 2016	December 2016	7	Complete
4	HSVP Rohtak	Construction. of 2 <sup>nd</sup> water works in Sector-34, Rohtak	July 2013	January 2015	19	Complete
5	HSVP Rohtak	Prov. Master W/S rising main Sec-34, Rohtak	February 2015	August 2015	19	Complete
6	HSVP Rohtak	Prov. Master W/S rising main Sec-34, Rohtak	February 2015	August 2015	19	Complete
7	HSVP Rewari	Construction of 1 no S&S Tank at water works Kalaka (Rewari)	September 2016	December 2017	Work in progress	Incomplete

**Appendix-28****(Reference: Paragraph 6.7.2; Page 65)****Division-wise status of delayed works (selected HSVP & MCs)**

Name of Districts	No of works	Delay in months	Status
MC-Hisar,	1	Work in progress	Incomplete
MC-Panchkula	1	Work in progress	Incomplete
MC-Faridabad	5	Min. 1 month to a max. of 24 months	Incomplete-1, Complete-4
MC-Rewari	1	Work in progress	Incomplete
MC-Rohtak	1	Work in progress	Incomplete
MC-Karnal	1	17	Complete
HSVP-Divisions			
HSVP-Hisar, Panchkula, Rohtak and Rewari	7	Min. 7 months to a max. of 19 months	Incomplete-2, Complete-5