MOST URGENT

No. IPH-B (F)5-11/2011
Government of Himachal Pradesh
Irrigation & Public Health Department

From

The Secretary (IPH) to the
Government of Himachal Pradesh

To

1. The Engineer-in-Chief(I&PH),
   H.P.US Club, Shimla-1.
2. All Chief Engineer, IPH Zone,
   Shimla/Mandi/Hamirpur/ Dharamshala.
3. All the Superintending Engineers,
   IPH Department, Himachal Pradesh.

Dated: Shimla- 171002, the 8.04.2016.

Subject: - Minutes of the Video Conference held on 11/03/2016 under the chairmanship of Secretary(IPH) regarding status of STPs in the State.

Sir,

I am directed to enclose herewith a copy of proceeding of the Video Conference held on 11/03/2016 under the chairmanship of Secretary(IPH) regarding status of STPs in the State for information and taking further necessary action. The status will be further reviewed in Video Conference fixed for 20-23rd April, 2016.

It is requested that the same may be uploaded on the official website of the department immediately.

Yours faithfully,

(Dr. S.K. Kapta)
Special Secretary (I&PH) to the
Government of Himachal Pradesh
0177-2626097.

MINUTES OF THE VIDEO CONFERENCE HELD ON 11/03/2016 WITH ALL THE CHIEF ENGINEERS OF IPH DEPARTMENT ON STATUS OF STPs IN THE STATE.

A meeting was held under the chairmanship of Secretary (IPH) to Govt. of HP through video conference on 11.03.2016 with all the Chief Engineers of IPH Department to discuss the status of Sewerage Treatment Plants (STPs) in the State. **List of participants is attached as Annexure-"A".**

At the outset, Secretary (IPH) to the Govt. of H.P. welcomed the participants and briefed about the importance of Video Conference on this issue which is very important from the point of view of providing clean drinking water to the people of the State as, cases of Jaundice have been reported from different parts of the State in recent months, allegedly due to drinking of contaminated water.

It was followed by sharing of the detailed information about functioning of STPs in each zone of the IPH Department. It was reported that there are 49 STPs in the state and as per Zone wise distribution, number of STPs, in Shimla Zone is 19, in Mandi 11, in Dharmsala 10 and in Hamirpur 9. First of all Chief Engineer, Dharamshala Zone shared the information about STPs located under his territorial jurisdiction/ Zone. After this, the status about respective zones was discussed by the Chief Engineer, Mandi, Hamirpur and Shimla Zones. It was intimated that out of 49 STPs in the State, 4 are in red category within a distance of 1 Km from the source of Water Supply Schemes (these are located in Rohru,Ghumarwin,Una and Sundernagar),9 are in orange category located within a distance of 1-5 Kms, 8 are in yellow category located within a distance of 5-10 Km, 13 are in blue category located within a distance of 10 Km from the source of water supply schemes and in the case of 15 STPs are in green category and at the

moment there are no Water Supply schemes near by. The distribution of STPs with respect to distance/ proximity to the source of water supply schemes is given at **Annexure-"B". The zone wise distribution of 49 STPs is given at Annexure-'C".** The STPs have been divided into five categories red, orange, yellow, blue and green keeping in view their distance from the sources of nearest water supply schemes and, as such, they need to be given importance in monitoring as per location as, even 24 hours delay in taking corrective measures can create disaster through contamination of water sources near by.

After discussion on various issues related to management of STPs, following decisions were taken:-

1. That the four STPs identified in category-1 located at Rohru, Ghumarwin, Una and Sundernagar were marked as most critical and are to be considered sensitive keeping in view their very close proximity with the source of existing water supply schemes and need to be monitored/managed with utmost vigil. The concerned SEs shall monitor them personally once in a fortnight after devising proper monitoring mechanism. It was also decided that alternate sources of water should be identified keeping in view the looming danger of contamination of sources of water supply schemes. It must be ensured that water is tested every two days and site is inspected as per SOP every three days. Responsibility of maintaining the discharge from these STPs within permissible limit prescribed by the HPPCB will rest with the concerned Executive Engineers. That it must be ensured in the case of STP Ghumarwin that the effluent/treated water from the STP are well within the prescribed limits fixed by the HP Pollution Control Board. Similar precautions must be taken for 9 STPs falling in orange category which are at a distance of 1-5 kms from the sources of water supply schemes.

2. That since, the existing sewerage scheme of Palampur is benefiting only a small number of populations within the Municipal Council limit whereas large number of population lives in the adjoining areas so, immediate steps will be taken to include such area with the sewerage network of Palampur town.
3. That, to ensure technical robustness in the design of STPs, the DPRs of STPs shall be scrutinized/approved by a Committee on the pattern of STAC and its draft Notification shall be got approved by the Engineer-in–Chief, IPH from the AD within 10 days. The committee shall also include members of HPPCB and UD department.
4. That, the Chief Engineer, Mandi Zone shall devise a proforma within 10 days, for monitoring of STPs keeping in view the Standard Operating Procedures for monitoring of STPs and WTPs already circulated to the department, suggesting the parameters that are critical and need to be monitored at the level of JEs to EEs in the case of STPs. Further, alerts will be developed on the basis of criticality of results of tests, to be addressed at various levels i.e. EE/SE/CE/Engineer-in-Chief and finally at the level of the Government wherein, at every level index of corrective measures for each alert will be available and the concerned officer will immediately respond to the alerts as per measures suggested in the index.

The meeting ended with a vote of thanks to participants.

ANNEXURE-"A"

List of participants:

Sr. No.	Name	Designation
1.	Dr. Sushil Kapta	Special Secretary (IPH)
2.	Shri Man Mohan Jassal	Under Secretary (IPH)
3.	Er. R.K. Mukul	Chief Engineer, IPH, Shimla Zone
4.	Er. R.K. Jarhyan	Chief Engineer (D&M)
5.	Er. Anil Bahri	Chief Engineer, IPH Zone Dharamshala
6.	Er. Rajesh Bakshi	Chief Engineer, IPH Zone, Mandi
7.	Er. Suman Vikrant	Chief Engineer, IPH Zone Hamirpur
8.	Er. Mahesh Sharma	SE, IPH Circle, Reckongpeo
9.	Er. B.S. Rana	SE, IPH Circle, Shimla-9.
10.	Er. Sanjeev Kaul	SE (P&I), Kasumpti, Shimla-9
11.	Er. Naveen Puri	SE, IPH Circle, Rohru
12.	Er. Dharmender Gill	SE, WSS Circle, Shimla

Annexure-"B"

Abstract of Classification of Sewerage Treatment Plants in Himachal Pradesh distance wise from nearest Water Scheme dawnstream of STPs.		
Red Category	Where the WSS are with in 1 Km. from STPs	4
Orange Category	Where the WSS are with in 1 Km. to 5 Km. from STPs..	9
Yellow Category	Where the WSS are with in 5 Km. to10 Km. from STPs.	8
Blue Category	Where the WSS are beyond 10 Km. from STPs.	13
Green Category	Where is no WSS dawnward of STPs	15
	Total	**49**

Annexuse- "C"

Classification of Sewerage Treatment Plants in Himachal Pradesh distance wise from nearest Water Scheme dawnstream of STPs.

Sr. NO	Name of Zone	Name of circle	Name of division	Name of Scheme	Location of STP	Capacity of STP in MLD	Distance from water bodies /Drinking water source	Remarks
1	2	3	4	5	6	7	8	9
	Category 1 -Where the WSS are with in 1 Km. from STPs.							
1	Shimla	Rohru	Rohru	Sewerage Scheme to Rohru Town in Tehsil Rohru, Distt. Shimla	Below Radha Swami Petrol Pump Rohru	Zone-I & II 1.015 MLD Zone-III 0.32 MLD (to be constructed)	* The effluent is discharged in River Pabber which is 100 meters away. * The lean period discharge of Pabber River is 4000MLD. * The distance of source of LWSS Barara (water requirement .032 MLD) is 500 meters down stream from effluent discharge point of STP on right bank. LWSS Parsa (water requirement .052 MLD) on left bank at same point.	The effulent is discharge in to Pabber river which is 500 Mtr away from STP.
2	Hamirpur	Bilaspur	Ghumarwin	M.C Ghumarwin	Down stream of Ghumarwim bridge on the left bank of seer khad.	1.20	1.LWSS Panol Amarpur (Approx. 2 Km onLeft Bank). 2 LWSS Bari Karangora (1 Km on Right bank scheme is Under construction)	Effulent of STP discharge in to Seer khad.
3	Hamirpur	Una	No-I una	Una	Near Chander Lok Colony Una	0.65	T/well No. 1 for Una Town 500 meter Upstream side	Effulent of STP is discharge in to una khad which further merges in to Swan river .

4	Mnadi	S/Nager	S/Nager	STP at Sundernagar	Chandpur Ghanghal	3.55 MLD	200 mtrs from BBMB canal/ No WSS on Ghangal Khad. However, there is a water supply scheme based on ground water on downstream at a distance of 250 mtrs. (WSS Kalahoud).	WSS Khlera dharla effulent of discharge in to ghangal khad . Ultimately merges in to Beas which is 80 Km. away.
	Category 2 - Where the WSS are with in 1 Km. to 5 Km. from STPs..							
5	Shimla	Shiml-9	Arki	Sewerage scheme to Arki Town	One KM on Arki Manju road from Arki	0.70 Mld	LWSS Manjoo source of the scheme is perinial khad which distance is 4.5 km from effluent discharge point.	The effulent of STP discharge in to arki khad.
6	Shimla	Shiml-9	Arki	Sewerage scheme to Kunihar Town.	One KM from Kunihar Shimla road (near Radha Sawami Satsang Bhawan) Near the Rao Khad	0.90 Mld	Discharged effulent observed in dry nallah after 300 meters there is no visible dicharge. Down below there is a LWSS Deha I which is 5.00 Km from STP	The effulent of STP discharge in to Raw khad which rermain dry for 6 to 8 month.
7	Shimla	WS&S Shimla-1	Div. No-II	Snowdon	Snowdon	1.35	Nearest WSS Nalag bag is around 9 Km from the dischargpoint of STP.	Effulent from STP is discharge into IGMC & Sanjauli .

8	Shimla	WS&S Shimla-2	Div. No-II	Lalpani	Lalpani	19.35		Effulent from STP is discharge into lalpani which after meet ashwani khad at distance above 8 Km.
9	D/Shala	D/Shala	Shahpur	Providng Sewerage system to kangra town	STP Zone No. -III Baner Khad Near old Kangra Fort.	0.63	5 Km (Water supply scheme Nandrori & daulat pue Jlari 5 KM dawnsream of STP.)	The effulent of STP discharge in Baner Khad .
10	D/Shala	D/Shala	Nagrota Bhagwan	Prov. Sewreage scheme to Nagrota Town in tehsil & Distt. Kangra	Baner Khad Near village Tharu	1.34	LWSS Sunher Mundla Thanpur is 3 Km dawn stream of STP.	The effulent of STP discharge in to Baner Khad .
11	D/Shala	D/Shala	Palampur	Providing sewrage scheme to palampur town	Bhiral khad Near IPH Rest House	0.351	WSS namely Gharbhal is about 5 KM down stream of STP	Effulent from STP is discharge in to bhiral khad .
12	Hamirpur	Hamirpur	Hamirpur	Sujanpur	Zone No.I Ward No.1 Near HPSEB Sub station	1.50	1.DWSS Seor Balla Distt. Kangra opposite bank= 2.50 KM	Effulent is discharge in to river Beas which is 500 Mtr, from STP.
13	Hamirpur	Una	No-I Una	Una	Rampur village Near Swan River	2.53	T/well No. 1 for Una Town 1500 meter Upstream side	Effulent from STP is discharge in to local drain which further merges in to

								swan river afer 700 Mtr.
	Category 3 - Where the WSS are with in 5 Km. to10 Km. from STPs.							
14	Shimla	WS&S Shimla-1	Div.No-II	Sanjauli- Malyana	Malyana	4.44	WSS Ashwani khad is 6 Km down stream of STP	Effulent from STP is discharge in to Ashwani Khad.
15	Shimla	WS&S Shimla-I	Div.No-II	Dhalli	Dhalli	0.76	8 KM Ashwani Khad & 2KM Jagroti	Effulent from STP is discharge in to Ashwani Khad.
16	Shimla	WS&S Shimla-I	Div.No-II	Summerhill	Summerhill	3.93	Nearest WSS is Chawla bhuet which is around 7 Km downstream of STP.	Effulent from STP is discharge in to gadog nallah.
17	D/Shala	D/Shala	Nagrota Bhagwan	Prov. Sewreage scheme to Tanda medical college	RPG Medical Collage Complex	1.40	LWSS Daulatpur Jlari 10 Km downstream of STP.	Effulent of STP discharge in to baner khad .
18	Hamirpur	Hamirpur	Hamirpur	Hamirpur	Zone No.I Hathli khad	3.13	WSS Barghathran is around 7 Km. Dawn stream of STP.	Effulent of STP is discharge in to hathli khad .The hathli khad further merges in to kunal khad.

19	Mandi	S/Nager	Mandi	STP at Mandi	Raghunath ka Padhar	3.83 MLD	LWSS Dhanyari is 10 Km. downstream of STP.	Effulent of STP discharge in to Beas river which is 50 meter from river beas
20	Mandi	S/Nager	Mandi	STP at Mandi	Khaliyar	0.47 MLD	LWSS Dhanyari is 10 Km. downstream of STP.	Effulent of STP discharge in to Beas river which is 30 meter from STP.
21	Mandi	S/nager	Padher	STP at Jogindernagar	Jogindernagar	1.735 MLD	5 mtr from water body/ 8 km from drinking water source (LWSS Drahal).	Effulent of STP is discharge in to Ner khad further merges in to Beas river after 20 Km.
	Category 4 - Where the WSS are beyond 10 Km. from STPs.							
22	D/Shala	Chamba	Chamba	Providing Sewerage Scheme to Chamba Town	Ravi River bank Near PWD Store Barga (Zone I & V)	1.51 MLD	22 KM	Effulent of STP discharge in to Ravi river
23	D/Shala	Chamba	Chamba	Providing Sewerage Scheme to Chamba Town	Ravi River bank Near Agriculture Farm Bhagot (Zone -II)	0.898	21 KM	Effulent of STP discharge in to Ravi river
24	D/Shala	Chamba	Chamba	Providing Sewerage Scheme to Chamba Town	Near Shitla Bridge Ravi river (Zone III)	0.20 MLD (RBC)	21.5 KM	Effulent of STP discharge in to Ravi river

25	D/Shala	Chamba	Chamba	Providing Sewerage Scheme to Chamba Town	Septic Tank Near ITI (Zone -IV)	1050 Users	21 KM	Effulent of STP discharge in to Ravi river
26	Mandi	Kullu	Div-I Kullu	STP at Kullu	Bhootnath	2.50 MLD	25.00 mtrs from river Beas & Sarwari Nallah/ 70 km from (LWSS Mandi).	Effulent of STP discharge in to Beas river
27	Mandi	Kullu	Div-I Kullu	STP at Lankabekar	Lankabekar	2.57 MLD	25.00 mtrs from river Beas / 70 km from (LWSS Mandi)	Effulent of STP discharge in to Beas river
28	Mandi	Kullu	Div-I Kullu	STP at Badah	Badah	0.38 MLD	30.00 mtrs from river Beas/ 70 km from (LWSS (Mandi)	Effulent of STP discharge in to Beas river
29	Mandi	Kullu	Div-I Kullu	STP at Manali	Near Police Station Manali	1.82 MLD	500 mtrs from river Beas / 110 km from (LWSS Mandi)	Effulent of STP discharge in to Beas river
30	Mandi	Kullu	Div-I Kullu	STP at Mela Ground Bhunter	Mela Ground Bhunter	0.99 MLD	30 mtrs from river Beas / 55 km from LWSS Mandi	Effulent of STP discharge in to Beas river
31	Mandi	Kullu	Div-II Kullu	STP at Sharabai	Sharabai	0.46 MLD	200 mtrs from river Beas/ 55 km from LWSS Mandi	Effulent of STP discharge in to Beas river
32	Mandi	Kullu	Div-II Kullu	STP at Jarad	Jarad	0.87 MLD	200 mtrs from river Beas /55 km from LWSS Mandi	Effulent of STP discharge in to Beas river

33	Shimla	Rohru	Jubbal	Sewerage Scheme to JubbalTown in Tehsil Jubbal, Distric Shimla	Below 22 KV Sub Station, HPSEBL Jubbal (Gunglidhar)	0.65 MLD	* The effluent is discharged in Bishkulti Khad which is 5 meters away. *The lean period discharge of Bishkulti Khad is 9 MLD. * No WSS has been constructed or proposed down stream of STP till Biskhkulti Khad merges in river Pabber at 10 K.M distance.	Effulent is discharge in sakroli khad . This khad merges in Pabber river after 7 Km.
34	Shimla	Nahan	Solan	Sewage Treatment Plant Solan Town Zone-B	Below Degree College Hostel, Mauza Ser		LWSS Galyana - 6.50Km	Effulent is discharge in to Solan Nallah .
	Category 5 - Where is no WSS dawnward of STPs							
35	Shimla	Rec-Peo	Rampur	Sewerage scheme Rampur Town. Phase Ist	At Khopri.	1.00 MLD	-	STP is 50 Mtr away from river satluj
36	Shimla	Rec-Peo	Rampur	Sewerage scheme Rampur Town. Phase-IInd	Near New Bus stand.	0.50 MLD	2 No local Baudi is located at about 2 KM at Gandhi Park	STP is 50 Mtr away from river satluj & effulent is discharge in to river Satluj
37	Shimla	Rec-Peo	Rampur	Prov Sewerage Scheme to village Jhakhri	Lower Jhakhri	1.00 MLD	1 No local Baudi is located at about 500 Rmt D/Stream side	Effulent of STP discharge in river Satluj

38	Shimla	Rec-Peo	Rec-Peo	Sewerage Scheme at Peo Township	Sharbo at R/Peo	1.00 MLD	1. No.drinking water source which is no 1000 mtr distance from STP and tapped by the IPH Department. 1 Nos. spring sources in private land which is on 100 mtr distance from STP Sharbo. Both are above STP	Effulent from STP is 700 Mtr from river satluj & effulent is discharge in to river Satluj
39	Shimla	Rec-Peo	Rampur	Providing Sewerage System Sarhan		0.124 (Septic Tank)		
40	Shimla	Nahan	Paonta	Zone-I	Devi Nagar	0.44 MLD	Yamuna River , 200 Rmt. Down stream	Effulent of STP discharge in to yamuna river which is 200 Mtr from STP
41	Shimla	Nahan	Paonta	Zone-II	Main Bazar	1.0 MLD	Yamuna River , 100 Rmt. Down stream	Effulent of STP discharge in to yamuna river which is 100 Mtr from STP
42	Shimla	Nahan	Paonta	Zone-III	Jambu Khalla	1.72 MLD	200 mtr down stream Bata River.	
43	Hamirpur	Bilaspur	Bilaspur	Sh. Naina Devi Ji	Dry Nallah near Mandyali	1.35	No scheme on Downstream side	The effulent of STP is discharge in to dry nallah which is further enter in to punjab area.

44	D/Shala	D/Shala	D/Shala	Providing sewerage system to D/Shala Town in Tehsil Dharamshala Distt. Kangra (HP).	Charaan khad Near Village Chelian	5.15	No WSS scheme downstream	The effulent of STP is discharge in to chelian Khad.
45	D/Shala	D/Shala	Dehra	providing sewrage scheme to Jwalamukhi town	Loond Khad Near Sabzi Mandi J/Mukhi	2.38	No WSS	The effulent of STP discharge into Loond Nallah which merges in to nakel khad after 5 Km. & then ultimately merges in to Beas after 25 Km.
46	Hamirpur	Hamirpur	Hamirpur	Hamirpur	Zone No.II at Kakru.	1.35	LWSS Chowki & Jhinara (Dis connected 2010)	The effulent of STP discharge in to Bungru Nallah which further merges in to Kunah khad after 9 Km
47	Hamirpur	Hamirpur	Hamirpur	Hamirpur	Zone No.III Bajuri Nallah Nr. Gaura.	0.68		The effulent is discharge in to hathli khad . Hathli khad after merges in to Kunah khad

48	Hamirpur	Hamirpur	Hamirpur	NIT Hamirpur	STP Near NIT complex.	0.27		The effulent is discharge in to Slashi nallah which further merges in to Kunah khad after 80 Km.
49	Shimla	WS&S Shimla-1	Div.No-II	North Disposal	North Disposal	5.8	Nearest WSS Nalag bag is around 11 Km from the dischargpoint of STP.	The effulent of STP discharge in to Lakker Bazar nallah .

Annexure-"C"

Abstract of Classification of Sewerage Treatment Plants in Himachal Pradesh distance wise from nearest Water Scheme dawnstream of STPs.		
Red Category	Where the WSS are with in 1 Km. from STPs	4
Orange Category	Where the WSS are with in 1 Km. to 5 Km. from STPs..	9
Yellow Category	Where the WSS are with in 5 Km. to10 Km. from STPs.	8
Blue Category	Where the WSS are beyond 10 Km. from STPs.	13
Green Category	Where is no WSS dawnward of STPs	15
	Total	**49**