

Himachal Pradesh
I&PH Department

No. SE.IPH.P&I-I-D-I Tech. Committee/2019-20- 3220-42

Dated: - 27.11.2019

To

Director (RDD)
SDA Complex, Block No. 27,
Shimla-9

The Chief Engineer,
I&PH Department, (S/Z), (M/Z), (H/Z), (D/Z), (D&M) &
CE- Cum- Director WSSO, Shimla-05.

Director (UD),
Palika Bhawan, Talland,
HP Shimla-171001

Dr. Arvind Kumar Nima,
Dr. B.J. Alappat
Professors, Civil Engineering Department,
IIT New Delhi.

MD-Cum-CEO,
Shimla Jal Prabandhan Nigam Limited,
U.S. Club, Shimla-01 (Special Invitee).

Sr. Environmental Engineer/
Sr. Scientific Officer,
HP PCB Phase-III,
New Shimla-09



Executive Officer,
M.C. Sunder Nagar, Mandi, Joginder Nagar, Chamba,
Manali, Parwanoo & Nahan
Distt. Mandi, Chamba, Kullu, Solan & Sirmour.

Subject:-

1st meeting of State Level Technical Committee for Scrutiny and approval of DPRs for Sewerage Scheme in HP.

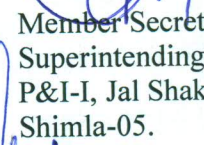
Enclosed please find herewith the minutes of 1st meeting of State Level Technical Committee for Sewerage, held on 01.11.2019 under the Chairmanship of E-in-C (IPH) at Jal Shakti Bhawan, Shimla-05 for your kind information and further necessary action with the rider that cost indicated with individual cases is not in the mandate of committee and the approval is only for process/ technologies to be adopted.

DA: -Minutes of Meeting through e-mail


Member Secretary-Cum-
Superintending Engineer
P&I-I, Jal Shakti Bhawan,
Shimla-05.


Copy to:

1. The Secretary (IPH) to the Government of HP Shimla-2 for information please.
2. The Engineer-in-Chief, IPH Department, Jal Shakti Bhawan Shimla-05 for information please.
3. The Joint Controller (F&A) IPH Department, Jal Shakti Bhawan Shimla-05 for information please.


Member Secretary-Cum-
Superintending Engineer
P&I-I, Jal Shakti Bhawan,
Shimla-05.

Minutes of the 1st State Level Technical Committee (Sewerage) meeting held on dated 01.11.2019 under the Chairmanship of Engineer-in- Chief (IPH), at the Jal Shakti Bhawan, Shimla-05

1st meeting of the State Level Technical Committee (Sewerage) for process approval of proposed sewerage schemes 2019-20 was held under the Chairmanship of Engineer-in- Chief (IPH) at the Jal Shakti Bhawan, Shimla-05 on 01.11.2019 at 11:00 AM

The Following were present in the meeting as per Annexuer A.

At the outset, member secretary welcomed all the members of the committee for 1st meeting for the year 2019-20. It was informed by the member secretary that the previous meeting of the Technical Committee was held on 26.02.2019 and minutes of the meeting were circulated to all concerned vide Member Secy.-cum-SE P&I-I Letter No.SE.IPH.P&I-I-D-I. Tech. Committee/2018-19-17-32 Dated 3.4.2019.However, as no comments were received, the minutes were taken as confirmed.

Accordingly, agenda items were taken up for discussion one by one as below:

Dharamshala Zone

Agenda No. 1 (a) Brief Description of Sewerage Treatment facility for Obri, Mai ka Bag and Sultanpur Mohalla of Chamba Town Tehsil and Distt. Chamba.

CE(D/Z) has sent the proposal to the Sewerage Treatment facility for Obri, Mai ka Bag and Sultanpur Mohalla of Chamba Town vide his letter No.IPH-CE(DZ)PH-II/B.D of Sewerage CBA /2019-6428-30 Dated 10.09.2019. Executive Engineer IPH Division Chamba presented the case as under:

The A/A & E/S for this scheme has been already approved by Principal Secretary (U/D) IPH Govt of Himachal Pradesh vide letter No. UD-F(2)2017 dated 22.10.2018 amounting to Rs. 1398 Lacs Only. There are two STPs having capacity of 0.421 MLD & 1.026 MLD which are based on the MBBR technology followed by tertiary treatment by constructing wetlands for each zone. Following treatment facilities has been taken in the proposal:

- Primary Treatment
- MBBR
- Plate / Tube Settler
- Sludge Dewatering by SDBS/Centrifuge
- Constructed Wetland
- Multi Media Filter

- Auto Chlorination
- Chlorine Contact Tank

The Committee approves the project proposal in principal with MBBR Technology followed by Constructed Wetland and the condition that CE/SE will ensure that all the guidelines of CPHEEO Manual, instruction issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

(b) Brief description of Sewerage Treatment facility for Harsar in Tehsil Bharmour Distt. Chamba (HP)

CE(D/Z) has sent the proposal to the Sewerage Treatment facility for Harsar in Tehsil Bharmour vide his letter No.IPH-CE(DZ)PH-II/B.D of Sewerage CBA /2019-6431-33 Dated 10.09.2019. Executive Engineer IPH Division Chamba presented the case as under:

There is only one STP having capacity of 0.21 MLD based on Integrated Constructed Wetland Technology has been proposed.

Following treatment facilities has been taken in the proposal:

- Civil work Including inlet Chamber,Screen chamber,grit chamber,inspection chamber , flushing tanks etc.
- Multi baffled anaerobic reactor
- Multi media filter walls
- Wetland
- Chlorine contact tanks
- ICW technology works on the preventative environmental principles to save the resources by utilizing natures potential for treatment of wastewater.
- Compatible quality of treated wastewater effective in pathogen removal and negible O&M required as compared with conventional STP's and requires 3 to 4 months for its commissioning .

The Committee approves the project proposal in principal by Constructing Wetland with primary, secondary and tertiary treatment and the condition that CE/SE will ensure that all the guidelines of CPHEEO Manual, instruction issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

(c) Retrofitting & Up Gradation of Sewerage Treatment Plant at Chamba Distt. Chamba (HP).

CE(D/Z) has sent the proposal to the Retrofitting & Up Gradation of Sewerage Treatment Plant at Chamba vide his letter No.IPH-CE(DZ)IPH-IFC-STAC/2019-8351-52 dated 29.10.2019 amounting to Rs. 623.8 Lakh Only. Executive Engineer IPH Division Chamba presented the case as under:

In this proposal 5 No. STP's have been proposed for Retrofitting & Up Gradation i.e Old Barga having capacity 1.50 Mld, STP Old Barga 0.77 Mld, STP RBC having capacity 0.20 Mld , STP Oxidation pond 0.89 Mld and STP Kariyan 0.49 Mld in which Parallel MBBR for various capacities with constructed wetland, MMF and tube settler are proposed with tertiary treatment .Present status and Proposed up gradation is tabulated as under:

Present Status	Proposed Up Gradation
STP Old Barga 1.501 MLD	Capacity will be increased to 1.70 MLD Sewerage of STP RBC will be included in this STP
STP Old Barga 0.77 MLD	Presently receiving sewerage of 0.3 to 0.35 MLD hence capacity will be 0.77 MLD and no tube settler proposed
STP RBC 0.20 MLD	STP RBC needs to be dismantled by creating new pumping station sewerage of this unit will be lifted to STP old Barga
STP Oxidation Pond 0.89 MLD	Capacity will be remained same i.e. 0.89 MLD
STP Kariyan 0.49 MLD	Capacity will be remained same i.e. 0.49 MLD

The STP design has been based on MBBR followed by constructing Wetland. After treatment water can be utilized for irrigation facility.

The Committee approves the project proposal in principal with MMBR followed by Constructing Wetland Teritary treatment and the condition that availability of land will be finalized by CE/SE and will ensure that all the guidelines of CPHEEO Manual, instruction issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

(d) Sewerage Scheme to Heritage Villages Garli & Pragpur in Distt. Kangra (HP).

Executive Engineer Jaswan Pragpur submitted his proposal of Sewerage Scheme to Heritage Villages Garli & Pragpur in Distt. Kangra through email on dated 31.10.2019 for its approval from SLTC of sewerage. Executive Engineer IPH Division Jaswan Pragpur presented the case as under:

Executive Engineer proposed two STP each zone I Garli 0.48 Mld capacity & Zone II Pragpur (Chamba Khas) 0.432 MLD capacity. Based on MBBR followed by constructed Wetland and Fish Pond. At present water supply level in the villages and its adjoining areas are 70 LPCD and the sewerage system has been designed for 120 Lpcd rates of water supply by augmenting the existing water supply schemes.

The Committee approves the project proposal with MBBR Technology followed by Constructed Wetland subject to the condition that possibility of constructing only one. STP in place of constructing two STP's need to be explored. Also comparison between maintenance of both STP and Combined cost of constructing only one STP with its maintenance cost needs to be explored. Sewerage scheme needs to be designed for 135 LPCD rate of supply in place of 120 LPCD. As the villages do not come under Urban areas necessity of augmenting the scheme needs to be justified before preparing the final proposal. CE/SE will ensure that all the guidelines of CPHEEO Manual, instruction issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered .

(e) Providing permanent sewerage system to left out area of Dharmshala MC in Distt. Kangra (HP).

Executive Engineer IPH Division Dharmshala submitted his proposal of Providing permanent sewerage system to left out area of Dharmshala MC in Distt. Kangra through e-mail on dated 30.10.2019 for its approval from SLTC of sewerage.

Committee discussed the case and it was decided that the proposal should be posed for funding in Smart City Project World bank WSS Programme.

Mandi Zone

Agenda No. 2 (a) Detailed Project Report on Up Gradation of sewerage Treatment Plant Sundar Nagar & Providing Sewerage connectivity to left out area under MC Sundar Nagar Distt. Mandi (HP).

CE(M/Z) has sent the proposal for Up Gradation of sewerage Treatment Plant Sundar Nagar & Providing Sewerage connectivity to left out area under MC

Sundar Nagar vide his letter No.IPH-CE(MZ)-WA-I-DPR-STP-RKP mandi/2019-6847-49 Dated 09.08.2019 for its approval from SLTC of sewerage.

The Assistant Engineer IPH Sub Division Sundernagar presented the case before the committee. It was brought to the notice of the committee that there is only 1 No. existing STP having capacity 3.55 MLD based on Extended Aeration Process. The replacement of existing extended aeration process with Membrane air diffuser system with MBBR Media, Multistage Tube Settlers and Tertiary Treatment with backwash system using multigrade filter and activated carbon and add centrifuge was considered in the proposal.

The committee approved the proposal in principal with condition that CE/SE will ensure that all the guidelines of CPHEEO Manual instructions issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered. The committee also directed that the source of funding should be explored and ensured before taking up the work. The feasibility of the capacity of the STP should also be explored.

(b) Up Gradation of existing Sewerage plant of 1.735 MLD capacities at Joginder Nagar (NAC) Tehsil JoginderNagar Distt. Mandi (HP).

CE(M/Z) has sent the proposal for Up Gradation of existing Sewerage plant of 1.735 MLD capacities at Joginder Nagar (NAC) Tehsil JoginderNagar Distt. Mandi vide his letter No.IPH-CE(MZ)-WA-II-estimate 2019-7580-82 dated 20.8.2019 for its approval from SLTC of sewerage.

The Executive Engineer IPH Division Chauntra presented the case before the committee. It was brought to the notice of the committee that there is only 1 No. existing STP having capacity 1.735 MLD based on Extended Aeration Process and Activated Sludge process. The following provision have been taken in the body of the estimate:

1. Parallel MBBR for 1.25 MLD Capacity.
2. CCT
3. Constructed wetland for 1.735 MLD Capacity. (It is proposed in modules and can be expanded for future demand)
4. Multimedia filter for 1.735 MLD Capacity. (It is proposed in modules and can be expanded for future demand)
5. Tertiary Treatment for micro pollutant removal.

The committee approved the proposal in principal with condition that CE/SE will ensure that all the guidelines of CPHEEO Manual instructions issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

(c) Retrofitting and Up Gradation of Sewerage Treatment plants of Sewerage Scheme Bhunter Town at Mela Ground Bhunter, Jarad and Sarabai Distt. Kullu (HP)

Zone A& D at Mela Ground 0.99 MLD.

Zone B& C at Sarabai 0.46 MLD

Zone E & F at Jarad 0.87 MLD

It was brought to the notice of the committee that all the STPs are presently working on Extended Aeration process and all the STPs are already approved with Membrane Air diffuser system with MBBR Media, Mutistage tube settler along with tertiary treatment system in 2nd meeting of the state level technical committee held on dated 15.12.2016 for the year 2016-17.

Now, It is proposed to provide parallel MBBR, Multimedia filter followed by constructed wetland of various capacities, tube settler along with tertiary treatment.

The committee approved the proposal in principal with condition that CE/SE will ensure that all the guidelines of CPHEEO Manual instructions issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered. The committee also directed that the source of funding should be explored and ensured before taking up the work.

(d) Providing Sewerage facility to Rangri, Manali and adjoining areas of Manali Town in Tehsil Manali Distt. Kullu (HP).

Executive Engineer Kullu- I submitted his proposal for Providing Sewerage facility to Rangri, Manali and adjoining areas of Manali Town through email on dated 30.10.2019 for its approval from SLTC of sewerage.

The Executive Engineer IPH Division Kullu -I made a power point presentation of the proposal. Total 4 Nos. STPs having capacity of 16.29 MLD including 1.82 MLD capacity of existing STP has been included in the proposal.

EE Kullu intimated that due to urbanization in adjoining areas of Manali Town sewerage facility has been proposed by dividing the area into different zones. Total 4 Nos. STPs has been proposed which are as under:

- STP 1 (for sector I& II) has been proposed near mountaineering institute Aleo-III SHEP having capacity 4.62 MLD.
- STP 2 for Jagatsukh area has been proposed at Bahnu Bihal 0.35 MLD having capacity of 0.35 MLD

- STP 3 (for sector 3, kanyal , Board Parsha & additional load of Manali STP) has been proposed near HPSEB Complex Rangri/ Bran Bihal having capacity of 9.92 MLD.

The committee approved the proposal in principal with SBR/ MBBR/ Extended Aeration Process with tertiary treatment and it was directed by the committee that technology should be finalized by detailed investigation before taking up the work and the condition that CE/SE will ensure that all the guidelines of CPHEEO Manual instructions issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

(e) Installation of Sewerage Treatment Plants for Keylong and Udaipur in Distt. Lahaul and Spiti (HP).

The proposal for providing Sewerage Treatment Plants for Keylong and Udaipur in Distt. Lahaul and Spiti has been received from EE Keylong through email on dt. 31.10.2019 for its approval from SLTC.

Executive Engineer IPH Division Keylong presented the proposal before the committee. The A/A & E/S of the scheme sewerage system for Keylong town has been accorded vide Deputy Commissioner No. PW-IDP-DR-88-89/7068-73 DT. 6.12.1988 for Rs. 56.62 Lacs and A/A & E/S for the scheme sewerage scheme for Udaipur town has been accorded vide ACS IPH No IPH-B (C) 12-4/2016 for 4.38 crore.

It is proposed to construct 2 no. STPs of capacity 0.51 MLD and 0.22 MLD for keylong town and STP of 0.47 MLD for Udaipur town. The winter temperature in Keylong may dip upto ⁽⁻⁾17° C this cold weather can have a significant effect on the operation and performance of waste water treatment. Keeping this in view Bio digester, DEWATS System with tertiary treatment has been proposed for the waste water treatment.

The Committee approved the project proposal with Bio digester, DEWATS System with tertiary treatment subject to the condition that revised A/A & E/S of the scheme may be got approved from the competent authority first. It was suggested by the committee that multilayered polycarbonate sheet may be provided for all STPs being cold Zones. CE/SE will ensure that all the guidelines of CPHEEO Manual, instruction issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

Shimla Zone

Agenda No. 3(a) Providing Sewerage to balance and additional Urbanizable Area of Solan Town (HP).

SE IPH Circle Solan has sent the proposal for Providing Sewerage to balance and additional Urbanizable Area of Solan Town vide letter No. IPH-SE(C)-SLN-Sewerage/2019-5323-25 dt. 15.10.2019 for its approval from SLTC.

Executive Engineer IPH Division Solan presented the proposal before the committee. Total 3 Nos. Zones (STPs) has been proposed under the proposal.

For Zone-I STP of 3.73 MLD total in which 2.90 MLD is already existing and 1 MLD has been proposed based on Extended Aeration Process.

For Zone-II STP of 2.50 MLD has been proposed with SBR Technology.

For Zone-III STP of 1.60 MLD has been proposed with SBR Technology.

It was brought to the notice of the committee that SBR Technology has been already approved in 2nd meeting of the state level technical committee held on dated 15-02-2018 for the year 2017-18.

The committee approved the proposal in principal with Extended Aeration process for Zone I and SBR technology for Zone II and Zone III and the condition that CE/SE will ensure that all the guidelines of CPHEEO Manual instructions issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

(b) Providing Sewerage Scheme Parwanoo Town in Distt. Shimla (HP).

SE IPH Circle Solan has sent the proposal for Providing Sewerage to balance and additional Urbanizable Area of Solan Town vide letter No. IPH-SE(C)-SLN-Sewerage/2019-5323-25 dt. 15.10.2019 for its approval from SLTC.

Executive Engineer IPH Division Solan presented the proposal before the committee. Total 2 Nos. STPs has been proposed under the proposal. The A/A & E/S of the scheme has already been accorded vide Secretary (IPH) endorsement No. IPH-B(E)4-72/2018-I dated 15.10.2019.

For Zone-I STP of 1.00 MLD based on MBBR Technology with tertiary treatment and for Zone II of 1.00 MLD based on MBBR Technology with tertiary treatment has been proposed.

The committee approved the proposal in principal with MBBR Technology with tertiary treatment and the condition that CE/SE will ensure that all the guidelines

of CPHEEO Manual instructions issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

(c) Providing Sewerage System to Chirgaon Bazaar and its surrounding area in Tehsil Chirgaon Distt. Shimla (HP) amounting To Rs. 28.72 Crore.

The proposal for Providing Sewerage System to Chirgaon Bazaar and its surrounding area in Tehsil Chirgaon Distt. Shimla has been received from Chief Engineer (S/Z) vide letter No. IPH-CE (SZ)-WA-I-Plan proposal (5)/2019-7750-51 dt. 24.10.2016 for its approval from SLTC.

Assistant Engineer IPH Sub Division Chirgaon presented the proposal before the committee. The capacity of 0.69 MLD STP based on MBBR Technology (tube settler) has been proposed.

It was directed by the committee that Detailed Estimate needs to be framed and all the technology options should be explored before presenting the case before the committee in the next meeting.

(d) Providing Sewerage system to Tikkar and surrounding area in Tehsil Tikkar Distt. Shimla (HP).

The proposal for Providing Sewerage System to Tikkar and surrounding area in Tehsil Tikkar Distt. Shimla has been received from Chief Engineer (S/Z) vide letter No. IPH-CE (SZ)-WA-I-Plan proposal (4)/2019-8000-01 dt. 29.10.2019 for its approval from SLTC.

Assistant Engineer IPH Sub Division Chirgaon presented the proposal before the committee. The capacity of 0.65 MLD STP based on MBBR Technology (tube settler) has been proposed

It was directed by the committee that Detailed Estimate needs to be framed and all the technology options should be explored before presenting the case before the committee in the next meeting.

(e) STP,s at Matiana Division proposed for Retrofitting and Up Gradation in Distt. Shimla (HP)

The proposal has been received from Chief Engineer(S/Z) vide letter No. IPH-CE (SZ)-WA-I-Tech. Committee/2019-8262-63 dt. 30.10.2019 for its approval

from SLTC. The Executive Engineer IPH Division Matiana made a power point presentation of a proposal before the committee.

It was brought to the notice of the committee that there are 2 Nos. existing STPs at Zone-I (Narkanda) having capacity 0.45 MLD and Zone-II (Theog) having capacity 1.15 MLD. Both the STPs are based on extended aeration process. A/A & E/S of the providing sewerage scheme Narkanda Town has been approved by Secretray(IPH) vide No. IPH-B(F)7-1/2006 dt. 25.03.2006 amounting to Rs. 149.73 Lacs. A/A & E/S of the providing sewerage scheme Theog Town has been approved by Pr. Secretary (IPH) vide No. IPH-B(F)7-6/05-loose dt. 9.06.2006 amounting to Rs. 423.17 Lacs.

For up gradation of both STP MBBR Technology followed by constructed wetland has been proposed for Zone I and Tertiary treatment with constructed wetland has been proposed for Zone-II.

The committee approved the proposal in principal with MBBR Technology followed by Constructed wetland with tertiary treatment and it was suggested by the committee that multilayered polycarbonate sheet may be provided for STP Narakanda and Theog being cold Zones and the condition that CE/SE will ensure that all the guidelines of CPHEEO Manual instructions issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

Additional Items:

(a) Plan Proposal for Providing Sluaghter House water Treatment Plant in Rohru Town Distt. Shimla (HP).

The proposal for Providing Sluaghter House water Treatment Plant in Rohru Town Distt. Shimla has been received from Superintending Engineer IPH Circle Rohru vide letter No. IPH-RC(WS)- Plan proposal (R)/2019-3656-58 dt. 26.10.2019 for its approval from SLTC.

It was directed by the committee that Detailed Estimate needs to be framed and all the technology options should be explored before presenting the case before the committee in the next meeting..

(b) Providing Sewerage System for Kala Amb and Monginand area laying of sewerage network and pre treatment plant in District Sirmour (HP).

The Executive Engineer IPH Division Nahan presented the proposal before the committee. It is proposed to provide a sewer network with primary treatment

unit for 1.70 MLD Capacity common effluent treatment plant Monginand, Ogli and Rampur jattan. The project has been initiated after following the NGT Orders dt. 7.08.2018. The technology used for primary treatment is Mechanical bar screens, Grit Chamber and treatment charges of the CETP plant is Rs. 8/Kl.


The committee approved the proposal in principal with condition that CE/SE will ensure that all the guidelines of CPHEEO Manual instructions issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

(c) Providing Sewerage System with STP to Trilokpur Kher & Jahron in District Sirmour H.P.

The Executive Engineer IPH Division Nahan presented the proposal before the committee. It is proposed to provide a STP of 1.50 MLD with SBR Technology. EE Nahan intimated that due to shock loads SBR Technology has been proposed using the precast chambers instead of the brick masonry chmbers /Manholes and after treatment treated water will be utilize for irrigation purpose.

The committee approved the proposal in principal with SBR Technology and the condition that CE/SE will ensure that all the guidelines of CPHEEO Manual instructions issued by the higher offices from time to time and HPPCB and CPCB regulations are to be adhered.

Meeting ended with the vote of thanks to and from the chair


Member Secretary -cum
Superintending Engineer,
P&I-I, Jal Shakti Bhawan,
Shimla-5.

Annexuer A**List of Participants:**

Sr. No.	Name	Designation
1	Er. Rakesh Kumar Mahajan	CE(M/Z)
2	Er. Sushil Justa	CE(D/Z)
3	Er. R.K.Verma	CE(D&M)
4	Er. Sanjeev Kaul	SE IPH Circle Solan
5	Er. Devesh Bhardwaj	SE IPH Circle Kullu
6	Er. J.S.Chauhan	SE IPH Circle Nahan
7	Er. Subhash Sharma	SE(WSSO)
8	Er. Virender Singh Thakur	SE IPH Circle Shimla-09
9	Er. Rohit Dubey	SE IPH Circle Chamba
10	Dr. Manoj Chauhan	Pr. Scientific Officer HPPCB
11	Er. K.R. Kulvi	EE IPH Div. No. II, Kullu
12	Er. Ranjeet Singh	EE IPH Div. Matiana
13	Er. Anil Kumar	EE IPH Div. Sundernagar
14	Er. Rajesh Mongra	EE IPH Div. Chauntra
15	Er. Dinesh Kapoor	EE IPH Div. Chamba
16	Er. Sumit Sood	EE IPH Div. Solan
17	Er. R.K.Sharma	EE IPH Div. No. I, Kullu
18	Er. Sanjeev Vohra	EE IPH Div. Keylong
19	Er. Sandeep Chaudhary	EE IPH Div. Pragpur
20	Er. M.R. Negi	EE Rural Development
21	Er. B.R.Negi	EO MC Mandi
22	Er. Ashok	EO MC Sundernagar
23	Er. P.P. Sharma	AE IPH Division Rohru
24	Er. Rajat Kumar Garg	AE IPH Division Sundernagar
25	Er. Ravi Kant Sharma	AE IPH Division Theog
26	Er. Jitender Sharma	AE IPH Chamba
27	Er. Rajest Kapta	AE IPH Division Chirgaon
28	Er. Mukand Lal Tanta	AE (P&I-I)
29	Er. Jeet Ram Pathania	JE IPH Kullu-I
30	Er. Kaushalya	JE (P&I-I)
31	Er. Rajender Singh	JE MC Sundernagar
32	Er. K.D. Sharma	JE MC Parwanoo
33	R.V. Singh	Sewerage Expert MC Parwanoo
34	Dr. Dinesh Kumar	Rebound (Consultant)