

**Himachal Pradesh  
Irrigation & Public Health Department**

No. IPH-SE-P&I-II-EE(D) -STAC/2017-

1038-69

Dated:

4.7.2017

To

1. The Engineer-in-Chief,  
I&PH Department, U.S. Club, Shimla-1. Chairman
2. Representative of the Chairman,  
Ganga Flood Control Commission,  
Sinchai Bhawan, 3<sup>rd</sup> Floor,  
Patna (Bihar)-800015. Member
3. Representative of the Secretary to the GOI,  
Ministry of Shipping and Transport,  
(Road Wing) Transport Bhawan, New  
Delhi. Member
4. Representative of the Principal Secretary  
(Finance) to the H.P., Shimla-171002. Member
5. Representative of the Chief Engineer  
(F.M.), CWC, Sewa Bhawan, 8<sup>th</sup> floor,  
R.K. Puram, New Delhi. Member
6. Representative of the Principal Chief  
Conservator of Forest H.P., Talland,  
Shimla-171002. Member
7. Representative of the Director of  
Agriculture H.P., Nalagarh House,  
Boiluegang, Shimla-171005. Member
8. to 11. The Chief Engineer, I&PH Department  
(MZ, DZ, HZ, SZ). Member
12. Regional Director, Govt. Of India,  
MOWR, Central Ground Water Board,  
Dove Cottage, Ram Nagar, Near Post  
Office  
Dharamshala-176215 (Special Invitee)
13. Director, (M&A)  
Directorate, CWC, MOWR, Govt of India,  
SDA Complex, Block No. 10, Shimla-9. (Special Invitee)
14. Chief Engineer, (D&M), I&PH  
Department, Jal Bhawan Kasumpti,  
Shimla-9. (Special Invitee)


**Subject:- Minutes of 52<sup>nd</sup> meeting of State Technical Advisory Committee (STAC) for Flood protection works, PMKSY (AIBP & Har Khet Ko Pani), State CAD and Repair, Renovation & Restoration of Water Bodies.**

**Reference:-** This Office letter No. IPH-SE-P&I-II-EE(D) – STAC/2017 – 653-79 dated 02.06.2017

Sir,

Enclosed please find herewith the Minutes of 52<sup>nd</sup> meeting of State Technical Advisory Committee (STAC) for Flood Protection Works, PMKSY (AIBP & Har Khet Ko Pani), State CAD and Repair, Renovation & Restoration of Water Bodies held on 20<sup>th</sup> June, 2017 at 11:00 A.M. in the Conference Hall of IPH Deptt., Jal Bhawan, Kasumpti, Shimla-9 under the Chairmanship of the Engineer –in- Chief, IPH Department for information and necessary action please.

Encls.: as above/ through e-mail/ IPH Website.

  
**Member Secretary cum  
Superintending Engineer,  
P&I-II, Jal Bhawan,  
Kasumpti, Shimla-9.**


**Copy alongwith Minutes of Meeting is forwarded for information and necessary action to:-**

The Principal Secretary (I&PH) to the Government of H.P., Shimla – 2.

All the Chief Engineers, under IPH Department.

All the Superintending Engineers, under IPH Department.

Superintending Engineer (Works), IPH Department, U.S. Club Shimla-1.

  
**Member Secretary cum  
Superintending Engineer,  
P&I-II, Jal Bhawan,  
Kasumpti, Shimla-9.**

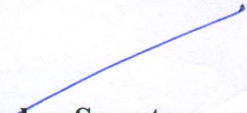
**Subject:- Minutes of 52<sup>nd</sup> meeting of State Technical Advisory Committee (STAC) for Flood protection works, PMKSY (AIBP & Har Khet Ko Pani), State CAD and Repair, Renovation & Restoration of Water Bodies.**

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P&I-II, Jal Bhawan,  
Kasumpti, Shimla-9.**

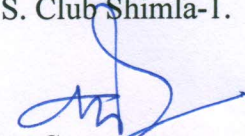
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Superintending Engineer (Works), IPH Department, U.S. Club Shimla-1.

  
**Member Secretary cum  
Superintending Engineer,  
P&I-II, Jal Bhawan,  
Kasumpti, Shimla-9.**

**Minutes of 52<sup>nd</sup> Meeting of State Technical Advisory Committee (STAC) for Flood Protection Works, PMKSY (AIBP & Har Khet Ko Pani), State CAD and Repair, Renovation & Restoration of Water Bodies held at Jal Bhawan, Shimla On 20.06.2017.**

The 52<sup>nd</sup> meeting of State Technical Advisory Committee (STAC) was held at Jal Bhawan, Shimla-9 on 20.06.2017 under the Chairmanship of Engineer-in-Chief, Irrigation & Public Health Department, Himachal Pradesh. The list of participants is as per **Annexure – A**.

At the outset, the Chairman welcomed all the participants and thereafter discussion on agenda items was held as under:

**AGENDA ITEM NO.1 FLOOD PROTECTION WORKS OF IPH CIRCLE HAMIRPUR.**

**1. Providing Flood protection works for Man Khad (from) RD 0 to 4 Km and from RD 4 to 8 KM in Tehsil Barsar, Distt. Bilaspur.**

Wire crated embankment with apron was proposed in a stretch of 4490 Rmt along the left bank and 2340 Rmt Right Bank of Maan Khad. The estimate has been framed upon analysed rates adopting latest market/ labour rates for an amount of Rs. 12.50 Crore. The proposed works shall protect an area of 39.90 Hectare and 35 Houses. It was proposed to provide wire crate in two layers with apron of 2.5 mtr intervened by loose stone filling of 0.30 mtr. After discussions the committee approved the proposal in principle as under:

- i. The flood protection works needs to be provided in most vulnerable reaches only.
- ii. The other observations as already raised in the agenda item of meeting should be complied while resurveying/ reframing the estimate.

**2. Providing Flood protection works for Sukkar Khad (from RD 0 to 5 Km ) in Tehsil Barsar, Distt. Bilaspur.**

Wire crated embankment with apron was proposed in a stretch of 2680 Rmt along the left bank and 2020 Rmt Right Bank of Sukkar Khad. The estimate has been framed upon analysed rates adopting latest market/ labour rates for an amount of Rs. 8.20 Crore. The proposed works shall protect and of 23.43 Hectare and 28 Houses. It was proposed to provide wire crate in two layers with apron of 2.5 mtr intervened by loose stone filling of 0.30 mtr. After discussions the committee approved the proposal in principle as under:

- i. The flood protection works needs to be provided in most vulnerable reaches only. In first phase the works upto RD 800 m and between 4200 - 4600 m may be done.
- ii. The other observations as already raised in the agenda item of meeting should be complied while resurveying/ reframing the estimate.

**3. Providing flood protection work on left bank of River Beas from Village Beri to Palahi in Tehsil Sujampur Distt. Hamirpur (H.P.).**

The estimated cost of the proposed work was more than Rs. 7.5 Crore, therefore, the committee deliberated to conduct the Model Studies and thereafter seek the approval of the State Technical Advisory Committee (STAC).

**AGENDA ITEM NO.2 FLOOD PROTECTION WORKS OF IPH CIRCLE - KULLU.**

**1. Providing Flood Protection works in Madgran Nallah in GP Udaipur Tehsil Lahul Distt. Lahul & Spiti.**

The work envisaged construction of wire crated embankment with apron in a stretch of 700 Rmt along the left bank of Madgran Nallah. The estimate has been framed upon analysed rates adopting latest market/ labour rates for an amount of Rs. 212.45 Lakh. The proposed works shall protect and of 62 Bigha (4.71 Hectare) and 15 Houses. It was proposed to provide wire crate in two layers with apron of 7 mtr. After discussions the committee suggested that the length of proposed launching apron i.e. 7.0 mtr shall restrict the existing water way which is already very less than the Lacey's width. Therefore, the proposal may be modified by providing the two wire crates at the bottom and one at the top and projection of the bottom layer shall act as the launching apron. The committee finally approved the proposal for an amount of Rs. 88.90 Lakh.

**2. Providing Flood Protection works to village Jispa in Tehsil Lahul Distt. Lahul & Spiti.**

The work envisaged construction of wire crated embankment with apron in a stretch of 360 Rmt along the right bank of Bhaga river in village Jispa. The estimate has been framed based upon analysed rates adopting latest market/ labour rates for an amount of Rs. 97.90 Lakh. The proposed works shall protect and of 43.18 Bigha (3.28 Hectare) and 7 Houses. After discussions the committee approved the proposal.

**AGENDA ITEM NO.3 FLOOD PROTECTION WORKS OF IPH CIRCLE RECKONG-PEO**

**1. Providing Flood Protection Work at Kaza Nallah in G.P. Kaza in Spiti Valley.**

The proposal consists of providing wire crated embankment with apron in a stretch of 493 Rmt on left bank and 570 Rmt along the right bank of Kaza Nallah. The estimate has been framed based upon analysed rates adopting latest market/ labour rates for an amount of Rs. 86.45 Lakh. The proposed works shall protect land of 56.57 Hectare and 140 Houses. After detailed discussions and deliberations, the committee approved the proposal.

**2. Providing flood protection work to Brouni khad near Jhakhari in Tehsil Rampur Distt. Shimla (H.P.) (SH:- C/O RCC work and wire crate work for channelization of Nallah).**

The proposal envisaged to provide RCC counter fort retaining walls, RCC bed and wire crates along the 500 Rmt stretch of Barouni Nallah 200 mtr u/s and 300 mtr d/s of NH-5 with

estimated cost of Rs. 10.87 Crore. The committee had detailed discussions and deliberations with respect to the provisions of the estimate and likely benefits to be accrued and finally it was recommended to conduct the model studies from IIT-Roorkee.

**AGENDA ITEM NO.4 FLOOD PROTECTION WORKS OF SWAN RIVER AND ITS ADJOINING TRIBUTARIES.**

**1. Providing flood protection measures for Swan River & its Tributaries joining the Beas basin in Tehsil Amb in Distt. Una (HP).**

The components of the proposal are as below:

Sl. No.	Description/Component	River/Stream	(Length in mtrs)	
			Left Bank	Right Bank
1.	Earthen Embankment with Stone pitching in wire crate on river side including Toe wall, apron in wire crate intervened by loose stone filling, geo-textile filter below sloped stone pitching & apron	Main Swan River	4000	7600
		Left side tributaries	6000	6750
		Right side tributaries	8800	8800
		<b>Total on each bank</b>	<b>18800</b>	<b>23150</b>
		<b>Total</b>	<b>41950</b>	
2.	Gabion Structures in embankment, Toe Wall, Apron underlain by Geo-textile filter sandwiched in sand layers	Main Swan River	-	-
		Left side tributaries	6000	6000
		Right side tributaries	3250	3700
		<b>Total on each bank</b>	<b>9250</b>	<b>9700</b>
		<b>Total</b>	<b>18950</b>	

The proposed works shall reclaim 643Hectare area mainly consisting of agricultural land, water logged areas and industrial areas benefiting 21 census villages of Tehsil Amb with population of 14744 persons. After detailed discussions and deliberations, the committee approved the proposal with estimated cost of Rs. 278.00 Crore.

**AGENDA ITEM NO.5 FLOOD PROTECTION WORKS OF IPH CIRCLE NAHAN**

**1. Providing flood and erosion protection measures along right bank of River Yamuna & its Tributaries in Tehsil Paonta Sahib District Sirmour (HP).**

The components of the proposal are as below:



Sl. No.	Description/Component	River/Stream	(Length in mtrs)	
			Left Bank	Right Bank
1.	Earthen Embankment with Stone pitching in wire crate on river side including Toe wall, apron in wire crate intervened by loose stone filling, geo-textile filter below sloped stone pitching & apron	Jambu Khala	7720	6850
		<b>Total</b>	<b>14300</b>	
2.	Anti Erosion works, Toe Wall, Apron underlain by Geo-textile filter above sand layer & Gabion Structures in embankment	Yamuna River	-	29000
		Tons River	-	1500
		Bata River	3000	3000
		<b>Total on each bank</b>	<b>3000</b>	<b>33500</b>
		<b>Total</b>	<b>36500</b>	

The proposed works shall reclaim 488.93 Hectare area mainly consisting of agricultural land, water logged areas and industrial areas benefiting 17 census villages with population of 23485 persons. The Superintending Engineer, IPH Circle – Nahan elaborated the project features to the committee and after detailed discussions/ deliberations, the committee approved the proposal with estimated cost of Rs. 215.61 Crore.

**2. Channelization of Giri River near Village Rajban (Harizan Basti and Nawada) in Tehsil Paonta Sahib District Sirmour (HP) RD 0 to 2700 & 6720 to 8340 mtrs.**

The components of the proposal are as below:

Sl. No.	Description/Component	River/Stream	(Length in mtrs)	
			Left Bank	Right Bank
1.	Earthen Embankment with Stone pitching in wire crate on river side including Toe wall, apron in wire crate intervened by loose stone filling, geo-textile filter below sloped stone pitching & apron	Giri River	-	2700
2.	Anti Erosion works on slope, Toe Wall, Apron underlain by Geo-textile filter above sand layer & Gabion Structures in embankment	Giri River	-	1620

*Ar*

The proposed works shall reclaim 233.56 Hectare area mainly consisting of agricultural land benefiting 5 villages. The proposal was considered in 51<sup>st</sup> STAC meeting held on 19.01.2016 and the committee recommended conducting the model studies. The proposal was revised according to the model studies and Superintending Engineer, IPH Circle – Nahan explained the project features and necessity of the proposed works to the committee. After detailed discussions/ deliberations, the committee approved the proposal with estimated cost of Rs. 30.57 Crore.

**3. Channelisation of Bata River Phase-II (Sudanwala, Konthriya & Mandi Khala) in Tehsil Paonta Sahib Distt. Sirmour (HP).**

The components of the proposal are as below:

Sl. No.	Description/Component	River/Stream	(Length in mtrs)	
			Left Bank	Right Bank
1.	Wire Crate Embankment with apron	Sudanwala Khala	-	29000
		Tons River	-	1500
		Bata River	3000	3000
		Total on each bank	<b>3000</b>	<b>33500</b>
		<b>Total</b>	<b>36500</b>	

The proposed works shall reclaim 390.81 Hectare area benefiting 12 villages. The proposal was considered in 33<sup>rd</sup> STAC meeting held on 07.12.2009 amounting to Rs. 1417.00 Lacs. After that Project Report was presented in the Ganga Flood Control Commission (GFCC)- Patna for further necessary approval and funding. The DPR returned with technical note No. GFCC/MP-II-(UP)/2092010-3607 dated 24<sup>th</sup> August 2010.

Now the revised detailed project report has been prepared after attending all observations of technical note for Rs. 3536 Lakh (Price level January, 2017), however, the model studies have not conducted which is necessary as per latest guideline. The Superintending Engineer, IPH Circle – Nahan explained the project features and necessity of the proposed works to the committee. After detailed discussions/ deliberations, the committee asked to conduct Model Studies of the project and accordingly the proposal of Flood Protection Works be prepared and submitted for approval of STAC.



**4. Providing Flood Protection Works to village Haripur Khol in Division, Paonta Sahib, Distt. Sirmour (HP).**

The proposal envisaged to provide embankments in wire crates along the 16605 Rmt of different Khalas with estimated cost of Rs. 47.22 Crore. The committee recommended to conduct model studies as the estimated cost of the works is more than Rs. 7.5 Crore and prepare the proposal accordingly.

**5. Providing Flood Protection Works to village Palhori in Tehsil Paonta Sahib District Sirmour H.P.**

The proposal envisaged to provide embankments in wire crates along the 7570 Rmt of Lohgarh Khala with estimated cost of Rs. 13.72 Crore. The committee recommended to conduct model studies as the estimated cost of the works is more than Rs. 7.5 Crore and prepare the proposal accordingly.

**AGENDA ITEM NO.6 FLOOD PROTECTION WORKS OF IPH CIRCLE  
DHARAMSHALA**

**1. Providing FPW to Rajeev Gandhi Govt. Engineering College in Massal at Nagrota Bagwan in Tehsil Nagrota Bagwan Distt. Kangra (H.P.)**

The work envisaged construction of wire crated embankment with apron in a stretch of 360 Rmt along the left bank and 600 Rmt along the right bank of Sinh Nallah to provide protection to the property of Rajeev Gandhi Govt. Engineering College in Massal at Nagrota Bagwan. The estimate has been framed upon analysed rates adopting latest market/ labour rates for an amount of Rs. 2.34 Crore and shall be executed as deposit work. After detailed discussions/deliberations the committee approved the proposal with estimated cost of Rs. 2.34 Crore.

**2. Providing FPW in Gram Panchayat Lapiana on Gaj Khad in Tehsil Harchakian Distt. Kangra. (H.P.)**

The work envisaged construction of wire crated embankment with apron in a stretch of 180 Rmt along the left bank and 720 Rmt along the right bank of Gaj Khad in GP Lapiana. The estimate has been framed upon analysed rates adopting latest market/ labour rates for an amount of Rs. 1.61 Crore. After detailed discussions/deliberations the committee approved the proposal with estimated cost of Rs. 1.61 Crore.

**AGENDA ITEM No. 7. CAD Proposals**

The list of the zone-wise proposals/estimates received under State CAD programme is as per **Annexure – B** consisting of 244 schemes with CCA of 14861.52 hectare in 11 IPH Circles covering all the districts. There was a thorough brain storming session focusing on cost norms to be adopted for these estimates, as the per hectare cost of the proposals received had large variance i.e. Rs. 57,000/- to Rs. 1,41,518/- per hectare including micro-irrigation component to be carried out by the Agriculture Department. The committee reiterated the two criteria viz. well functioning

of the scheme and willingness of farmers/KVS for CAD works for selection of schemes and the following additional criteria eventually emerged after the discussions:

1. The CAD proposal of only those irrigation schemes should be taken under State CAD programme, where the potential utilization of the scheme is more than 40%.
2. The cost per hectare (i.e. excluding micro irrigation) should not be more than Rs. 75000/- per hectare for the works to be executed by IPH Department.
3. The outlet may be provided for an area of 0.5 hectare to 1.5 hectare as per site feasibility.
4. The HDPE pipes to be used for the CAD works should have diameter from 75 mm (minimum) to 180 mm (maximum). Wherever, it is not feasible/ suitable to provide the HDPE pipe the provision of open channel or equivalent structure as per norms of the Department may be considered for such schemes.

The prioritization of the schemes included in the list shall be finalized at Zonal Level after preparing the estimates on above fixed norms keeping in view well functioning of each irrigation scheme as well as willingness of the farmers and getting it the approved from the District Level Implementation Committee.

Meeting ended with a vote of thanks to the chair.



## Annexure-A

LIST OF PARTICIPANTS FOR THE 52nd Meeting of State Technical Advisory Committee (STAC) for Flood Protection Works, PMKSY (AIBP & Har Khet Ko Pani), State CAD and Repair, Renovation & Restoration of Water Bodies held at Jal Bhawan, Shimla on 20.06.2017.

Sr. No.	Name and Designation	
1.	Er. Anil Bahri, Engineer-in-Chief, I&PH Department U.S. Club, Shimla-1.	Chairman
2.	Er. Suman Vikrant, Chief Engineer, I&PH Department, Hamirpur Zone.	Member
3.	Er. Rajesh Bakshi, Chief Engineer, I&PH Department, Mandi Zone.	Member
4.	Er. Naveen Puri, Chief Engineer, I&PH Department, D/shala Zone	Member
5.	Er. R. M. Mukul, Chief Engineer, I&PH Department, Shimla Zone, U.S. Club, Shimla-1.	Member
6.	Sh. Anant Kumar Gupta, Director (M&A), CWC, Shimla	Member
7.	Er. Abinder Singh Chadha, Superintending Engineer, IPH Circle, Hamirpur.	Member
8.	Er. N. M. Saini, Superintending Engineer, SRC Project Una	Member
9.	Er. Om Prakash, Superintending Engineer, IPH Circle, R/Peo	Member
10.	Er. L.S. Thakur, Superintending Engineer, IPH Circle, D/Shala.	Member
11.	Er. Sunil Kanotra, Superintending Engineer, IPH Circle, Sunder nagar.	Member
12.	Er. S.K.Dhiman, Superintending Engineer, IPH Circle, Nahan.	Member
13.	Er. Arun Sharma, Superintending Engineer, IPH Circle, Bilaspur	Member
14.	Er. Rakesh Kumar Mahajan, Superintending Engineer, P&I-I, Jal Bhawan.	Special Invitee
15.	Er. Sushil Justa, Superintending Engineer, (Design) IPH Department, Shimla Zone.	Special Invitee
16.	<b>Er. Dinesh Kumar Negi, Superintending Engineer, P&amp;I-II, Jal Bhawan.</b>	<b>Member Secretary</b>
17.	Sh. Desh Raj Rana, Plant Protection Officer, Dte. of Agriculture Shimla-5	Member
18.	Sh. Hem Singh Verma (Sr.Fgd), Dealing Asstt., Soil wing of HP Forest Deptt.	Member
19.	Er. I.S.Verma, Executive Engineer, IPH Division Kaza.	

Sr. No.	Name and Designation	
20.	Er. Rohit Dubey, Executive Engineer, IPH Division Thural.	
21.	Er. Upender Vaidya, Executive Engineer, IPH Division Padhar.	
22.	Er. Deepak Garg, Executive Engineer, IPH Division Nagrota Bagwan.	
23.	Er. P.M.Singh, Executive Engineer, P&I-I, Jal Bhawan.	
24.	Er. K.R. Kulvi, Executive Engineer, IPH Division Kullu.	
25.	Er. Rajender Khawla, Executive Engineer, IPH Division Barsar	
26.	Er. Neeraj Bhogal, Executive Engineer, IPH Division Hamirpur	
27.	Er. Mukesh Hira, Executive Engineer, IPH Division No.1, Una.	
28.	Er. Sanjay Thakur, Executive Engineer, IPH Division No.2, Una.	
29.	Er. Rajinder Singh, Executive Engineer (Design), IPH Circle Chamba	
30.	Er. Naresh Dhiman, Executive Engineer, IPH Division Paonta	
31.	Er. Anil Kumar, Assistant Engineer, P&I-II, Jal Bhawan.	
32.	Er. Sumesh Raj, Assistant Engineer, IPH Division Shahpur.	
33.	Er. S.K.Thakur, Assistant Engineer, IPH Sub-Division Thural.	
34.	Er. Rahul Dhiman, Assistant Engineer, IPH Sub-Division Nagrota Bagwan.	
35.	Er. S.S.Pundri, Assistant Engineer, IPH Sub-Division Majra Paonta.	
36.	Er. Ajay Gupta, Assistant Engineer, IPH Sub-Division Joginder Nagar.	



General Abstract of List of Proposal of CAD works under State Head					
Sr. No.	Zone	Circle	Nos. of Irrigation Scheme	CCA (in hect.)	Remarks
1	Hamirpur	Hamirpur	9	1012.00	Schemes approved under DIP on dated 12-06-2017
2		Una	35	1469.79	
3		Bilaspur	18	1006.62	
<b>Total</b>			<b>62</b>	<b>3488.41</b>	
4	Mandi	Mandi	16	1249.52	Schemes approved under DIP on dated 15-05-2017
5		Kullu	10	1617.25	
<b>Total</b>			<b>26</b>	<b>2866.77</b>	
6	Shimla	Nahan	66	2674.92	
7		R/Peo	17	1921.00	
8		Shimla	7	230.84	
9		Rohru	30	823.15	
<b>Total</b>			<b>120</b>	<b>5649.91</b>	
10	Dharamshala	D/shala	20	1967.74	
11		Chamba	16	888.69	
<b>Total</b>			<b>36</b>	<b>2856.43</b>	
<b>G.Total:-</b>			<b>244</b>	<b>14861.52</b>	

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**List of CAD Schemes to be implemented under State CAD Programme**

Zone	Circle	No.	Name of Scheme	CCA (in hect.)		
H/Pur	H/Pur	1	Providing LIS Neri Kamlah in Tehsil and District Hamirpur (H.P.)	50.00		
		2	Providing LIS Bari Gharan in Tehsil and District Hamirpur (H.P.)	39.00		
		3	Providing LIS Kehdroo in Tehsil and District Hamirpur (H.P.)	47.00		
		4	Providing LIS Chalberi in Tehsil Nadaun District Hamirpur (H.P.)	108.00		
		5	Providing LIS Majhiar Sera Pakhrol Phase-1st and 2nd in Tehsil Nadaun District Hamirpur (H.P.)	453.00		
		6	Providing LIS Tongni Mathan in Tehsil Sujanpur District Hamirpur (H.P.)	41.00		
		7	Providing LIS Bahru Jatour & Kudana in Tehsil Sujanpur District Hamirpur (H.P.)	60.00		
		8	Providing LIS Pour in Tehsil Sujanpur District Hamirpur (H.P.)	111.00		
		9	Providing LIS Palahi in Tehsil Sujanpur District Hamirpur (H.P.)	103.00		
		<b>Total No. of scheme 9</b>			<b>1012.00</b>	
		Una	Una	1	C/O T/Well at village joh, Dangoh Khas, Pirthipur, Gondpur Banehra, Nakroh and Bhaderkali in Distt. Una (H.P.) (Sh:- CAD estimate for tube well at village Joh & Pirthipur)	38.40
				2	C/O T/Well at Karluhi (Tibbi), Karluhi (Har), Akrot, Saloori, Dussara Behri and Lower Hamboli in Tehsil Amb Distt. Una { 7 Nos.T/Well} (Sh:- CAD estimate for tube well at village Karluhi (Tibbi), Karluhi (Har), Akrot, Dhusara Behri )	83.95
				3	C/O T/Well at Nangal Salangri, Baruhi & Lower Dangehra-II and Samoor khad in Tehsil & Distt. Una.(Sh:- CAD estimate for tube well at village Nangal Salangri & Lower Dangehra.)	35.70
4	C/O 7 nos. T/Well at Katour Kalan ( Pandit & Bahti abadi), Athwan, Hamboli Brahmna, Bijapur, Chintpurni, Dhandhri (near Takarla More) & Lower Bhaira in Tehsil Amb Distt. Una.(Sh:- CAD estimate for tube well at village Dhandhri Takarla More & tube well at Athwan.)			33.80		
5	C/O 8 nos. T/Well at village Khad-Massiani, Madanpur, Harizan Basti Dhamandri, Sanjhot Khad, Sadhu Ram abadi, Lower Baruhi,Berian Ladyala Abadi, Chowki Madanpur & Panjora in Tehsil Amb Distt. Una (H.P.) (Sh:- CAD estimate for tube well at village Baruhi, Panjora & Madanpur.)			44.90		
6	C/O Tube well at Jadla Lower in Tehsil Ghanari /Amb District Una ( Sh:- CAD estimate for tube well at village Lower Jadla.)			12.00		
7	C/O Tube well at village Mawa Sindhian in Tehsil Ghanari/Amb Distt. Una (HP) (Sh:- CAD estimate for tube well at village Mawa Sindhian.)			20.80		
8	C/O Tube well at village Mawa Kohlan PR-2 in Tehsil Ghanari/ Amb Distt. Una.(Sh:- CAD estimate for tube well at village Mawa Sindhian.)			15.00		
9	C/O Tube well at village Nangal Jarialan in Tehsil Ghanari/Amb Distt. Una.(Sh:- CAD estimate for tube well at village Nangal Jarialan.)			24.00		
10	C/O Tube well at Gagret (Belli) in Tehsil Amb Distt. Una.(Sh:- CAD estimate for tube well at Gagret (Belli).			18.40		
11	C/O LIS Koharchhan Phase 2nd in Tehsil Amb Distt. Una.			22.50		
12	C/O Tube well at Katour Kalan in Tehsil Amb Distt. Una.			16.80		

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Zone	Circle	No.	Name of Scheme	CCA (in hect.)
		13	C/O LIS Saloi in Tehsil Amb Distt. Una.	26.90
		14	C/O Tube well at village Nandpur Thathal Phase 1st in Tehsil Amb Distt. Una.	11.00
		15	C/O Tube well at village Nandpur Thathal Phase 2nd in Tehsil Amb Distt. Una.	25.90
		16	C/O Tube well at village Takrala Phase 2nd in Tehsil Amb Distt. Una.	16.80
		17	C/O Tube well at village Nandpur Thathal Phase 3rd in Tehsil Amb Distt. Una.	46.10
		18	C/O Tube well at village Mubarikpur Banne Di Hatti in Tehsil Amb Distt. Una.	21.00
		19	C/O Tube well at village Abheypur in Tehsil Amb Distt. Una.	23.50
		20	C/O Tube well at village Deoli in Tehsil Amb Distt. Una.	23.60
		21	C/O Tube well at village Nakroh (Ram Nagar) in Tehsil Amb Distt. Una.	19.50
		22	C/O Tube well at village Chalet in Tehsil Amb Distt. Una.	18.90
		23	Providing CAD for LIS P 23 Bhadouri, Kante Gagroh, 69 at Dharampur, 70 at Sainsowal, 74 at Haroli, 72 at Haroli, 91 at Kanger, 62 at Saloh, 76 at Badhera, 78 at Saloh, Lower Kanger (Nr.School) and 121 at Saloh Distt. Una.	63.00
		24	Providing CAD for LIS 82 at Rora, 84 at Samnal, 90 at Dharampue, Samnal (Nr. Chakki), Sainsowal (Nr. Tobba), at Kante, Rora (Nr. Shamshan ghat ),Haroli (Nr,Socity) and Kante Lower Road Distt. Una.	44.00
		25	Providing CAD for LIS 45 at Bhadsali, 43 at Bhadsali, Ispur at Lawana Mazra, 57 at Badhera, 59 at Badhera, 55 at Saloh and 51 at Bhadsali Distt. Una.	44.00
		26	Providing CAD for LIS 31 at Khad, 32 at Khad, 33 at Khad, 27 at Khad and 132 at Khad Distt. Una.	41.00
		27	Providing CAD for LIS 87 at Panjavar, 124 at Panjavar, Nagnoli (Nr. Petrol Pump), Nagnoli (Nr.Govt. Middle School), 137 at Pandoga, 40 at Pandoga, 41 at Ispur and LIS Kahiwal (H/Basti) Distt. Una.	59.00
		28	Providing CAD for LIS Pubowal ( Haleran), at Heer Thada and 110 Gondpur Jaichand Distt. Una.	60.00
		29	Providing CAD for LIS Bathri Near Patwar Khana, 125 Bathri, Bathu Mohalla Rahar and 114 Bat Kalan Distt. Una.	100.00
		30	Providing CAD for LIS 139 Nangal Kalan, 118 Palkwah and Lalhri, 61 Palkwah. Pangoli Palkwah and 79 Chandpur Distt. Una.	200.00
		31	Providing CAD for LIS at Dangoli, Sunehra, Kuthar Khurad and Nangran Distt. Una.	41.00
		32	Providing CAD for LIS Upper kotla Kalan, Ajnoli (Upper), Basal Basola & Malaht Distt. Una.	42.00
		33	Providing CAD for LIS Upper Basal (Bara Bera), 1 at Takka, Upper Basal (Bara Bera) and 1 at Takka Bela, Kotla Khurd Lower, Bharolian Khurd and Malahat Distt. Una.	57.00
		34	Providing CAD for LIS at Dehlan (Sadiana) and Dehlan (Khobran) Distt. Una.	49.34
		35	Providing CAD for LIS Malookpur, Behdala and Mazara Distt. Una.	70.00
			<b>Total No. of scheme 35</b>	<b>1469.79</b>
	Bilaspur	1	LIS Lower Kothipura.	30.00
		2	C/O CAD works FIS Rani Kotla.	14.00
		3	C/O CAD works LIS Neri Jamli	105.00
		4	C/O CAD works LIS Chilla.	84.00
		5	C/O CAD works LIS Nanwan.	45.28
		6	C/O CAD works LIS Nari Sarli.	34.40
		7	C/O CAD works LIS Mehri kathla.	65.00

Zone	Circle	No.	Name of Scheme	CCA (in hect.)	
		8	C/O CAD works FIS Nalti 1st and 2nd.	123.00	
		9	C/O CAD works LIS Lanjta in Tehsil Ghumarwin.	64.00	
		10	C/O CAD works LIS Daghiar.	20.33	
		11	C/O CAD works LIS Bani Panditan.	82.70	
		12	C/O CAD works LIS Domehra.	17.00	
		13	C/O CAD works LIS Dabla.	40.00	
		14	C/O CAD works LIS Baddu Glasin.	52.54	
		15	C/O CAD works LIS Bhadrog.	41.00	
		16	C/O CAD works LIS Patta.	46.37	
		17	C/O CAD works LIS Kalchi Muchwan in Tehsil Ghumarwin Distt. Bilaspur .	96.00	
		18	C/O CAD works LIS Amrora in Tehsil Jhandutta.	46.00	
			<b>Total No. of scheme 18</b>	<b>1006.62</b>	
Mandi	S/Nagar	1	FIS Kass Kulh in G.P. Bhararoo Tehsil Joginder Nagar Distt. Mandi.	79.28	
		2	FIS Garoru Kuhl in G.P. Garoru Tehsil Joginder Nagar Distt. Mandi.	19.93	
		3	FIS Bharyara Kulh in G.P. Bharyara Tehsil Joginder Nagar Distt. Mandi.	69.00	
		4	FIS Segli in G.P. Garoru Tehsil Joginder Nagar Distt. Mandi. Distt. Mandi.	100.93	
		5	FIS Shanan in Tehsil Joginder Nagar Distt. Mandi.	55.00	
		6	LIS Riyagri in G.P. Kamand Tehsil Sadar Distt. Mandi.	36.15	
		7	LIS Kataula Nandle in G.P. Kataula Tehsil Sadar Distt. Mandi.	52.47	
		8	FIS Pali in G.P. Pali Tehsil Sadar Distt. Mandi.	25.79	
		9	LIS Panarsa in G.P. Kotadhar Tehsil Sadar Distt. Mandi.	332.44	
		10	LIS Hansu to Sojha, Jori, Kigas in GP Kigas Tehsil Sadar Distt. Mandi.	94.29	
		11	LIS Banol Niul in GP Mehani Tehsil Sadar Distt. Mandi.	75.25	
		12	LIS Upper Pandoh in GP Pandoh Tehsil Sadar Distt. Mandi.	40.50	
		13	LIS Majhatal in GP Bhangrotu Tehsil Balh Distt. Mandi.	39.94	
		14	LIS Jallah in GP Lohara Tehsil Balh Distt. Mandi.	48.49	
		15	FIS Bethwan in GP Chattri Tehsil Thunag Distt. Mandi.	106.29	
		16	FIS Kayragi in GP Lower Karsog Tehsil Karsog Distt. Mandi.	73.77	
				<b>Total No. of scheme 16</b>	<b>1249.52</b>
		Kullu	1	C/O LIS Kharahal in Tehsil & District Kullu .	386.02
			2	C/O LIS Mahili in G.P. Archandi in Tehsil Manali & District Kullu .	99.97
			3	LIS Suind hathithan, Khokhan, Jamot and Hat in Tehsil Bhunter District Kullu (H.P.) .	342.70
			4	Renovation of Distribution LIS Shamshi in District Kullu (H.P.)	181.85
			5	C/O FIS Tikkari Thans in Nirmand Block District Kullu (H.P.) .	202.58
			6	C/O LIS to village Nauni & Upper Ghatoo in Nirmand Block District Kullu (H.P.) .	35.62
			7	LIS Haripur Nagan in anni Block District Kullu (H.P.)	23.73
			8	LIS Kalehali Bajoura	152.00
			9	LIS Batgran Tuni Seri	127.78
	10		LIS Mohal	65.00	
			<b>Total No. of scheme 10</b>	<b>1617.25</b>	

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Zone	Circle	No.	Name of Scheme	CCA (in hect.)
Shimla	Nahan	1	LIS Konthron in G.P. Deoni Tehsil Nahan Distt. Sirmour (H.P.)	37.45
		2	LIS Deoni in G.P. Deoni Tehsil Nahan Distt. Sirmour (H.P.)	36.41
		3	LIS Dandipur, Mandpa and Sansiwala in Tehsil Nahan Distt. Sirmour (H.P.)	26.18
		4	LIS Koon in G.P. Bankla Tehsil Nahan Distt. Sirmour (H.P.)	27.49
		5	LIS Palion in G.P. Barma Papri Tehsil Nahan Distt. Sirmour (H.P.)	75.30
		6	LIS Barma Papri in G.P. Barma Papri Tehsil Nahan Distt. Sirmour (H.P.)	39.00
		7	LIS Lehi-khonto in G.P. Barma Papri Tehsil Nahan Distt. Sirmour (H.P.)	20.50
		8	LIS Jangla-Bhood in G.P. Barma Papri Tehsil Nahan Distt. Sirmour (H.P.)	62.40
		9	LIS Nagal in G.P. Kala Amb Tehsil Nahan Distt. Sirmour (H.P.)	60.62
		10	LIS Shambhuwala in G.P. Bankla Tehsil Nahan Distt. Sirmour (H.P.)	53.72
		11	LIS Suketi in G.P. Kala Amb Tehsil Nahan Distt. Sirmour (H.P.)	51.00
		12	LIS Salani Katola in G.P. Salani Tehsil Nahan Distt. Sirmour (H.P.)	49.67
		13	LIS Manthpal in G.P. Kala Amb Tehsil Nahan Distt. Sirmour (H.P.)	46.00
		14	LIS Ambawala in G.P. Ambwala, Sainwala Tehsil Nahan Distt. Sirmour (H.P.)	43.45
		15	Improvement of LIS Millah Magnal in Tehsil Shillai Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing of HDPE Pipe in distribution system)	62.53
		16	Extension of LIS Uttari (under CAD) in G.P.Naya Tehsil Shillai Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing of HDPE Pipe in distribution system)	50.48
		17	C/O LIS Muglawala Kartarpur Tehsil Paonta Sahib Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing & testing of HDPE Pipe)	74.46
		18	C/O LIS Kando Nadi Tehsil Paonta Sahib Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing of HDPE Pipe in distribution system)	28.08
		19	C/O LWSS/ LIS T/well Gujjar Colony in G.P.Dhaulakuan Tehsil Paonta Sahib Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing of HDPE Pipe in distribution system)	21.74
		20	C/O LIS Bhanet Haldwari in G.P. Bhanet Haldwari in Tehsil Paonta Sahib Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing of HDPE Pipe in distribution system)	38.57
		21	C/O LIS Kudla Kharag in G.P.Bhanet haldwari Tehsil Paonta Sahib Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing of HDPE Pipe in distribution system)	45.83
		22	C/O LIS Upper Mashoo in G.P.jamna Tehsil Paonta Sahib Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing of HDPE Pipe in distribution system)	69.78
		23	C/O LIS Neradhunai in G.P.Dugana Tehsil Paonta Sahib Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing of HDPE Pipe in distribution system)	24.36
		24	C/O LIS Kando Cheog in G.P.Kando Cheog Tehsil Paonta Sahib Distt. Sirmour (H.P.)(SH:- Providing , Laying , Jointing of HDPE Pipe in distribution system)	44.56
		25	LIS Kangota	25.00
		26	LIS Chandol	80.00
		27	LIS Dhamoon	115.00
		28	LIS Dhamander	150.00
		29	LIS Lana Pallar	51.50
		30	LIS Khalla Kyar	55.47
		31	FIS Thor Niwar	40.00
		32	FIS Lana Cheta	80.00
		33	LIS Bino (SH:- Providing distribution system to village Tharola)	20.00

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Zone	Circle	No.	Name of Scheme	CCA (in hect.)
		34	FIS Dangheel (Garinja)	10.00
		35	LIS Kanchir (SH:- Providing distribution system to village Kanchir)	42.50
		36	LIS Rugra Kanair (SH:- Providing distribution system to village Kanair)	64.52
		37	FIS Bagh	30.00
		38	DPR for Providing CAD of LIS Dhang Plassi in Tehsil Nalagarh District Solan (H.P.)	187.00
		39	LIS Sour	50.00
		40	LIS Manlog Kallan	187.00
		41	LIS Gajehad	15.00
		42	LIS Bheonkhar	20.00
		43	LIS Chamdhar	30.00
		44	LIS Jagehad	15.00
		45	LIS Larech	15.00
		46	Sai Kund Johri Chamyari	10.00
		47	LIS Paneli	30.00
		48	LIS Kaunta	15.00
		49	T/Well Katha	10.00
		50	T/Well Gularwala	10.00
		51	LIS Landeywal	10.00
		52	LIS Sitalpur	10.00
		53	LIS Sandoli	10.00
		54	T/Well Koli majra	20.00
		55	T/Well Kondi	20.00
		56	T/Well Dassomajra	27.00
		57	LIS Kotian Harizan Basti	10.00
		58	T/Well Kambawala	7.00
		59	LIS Mandhala-1	12.00
		60	T/Well Baluana	10.00
		61	T/Well Barotiwala	16.00
		62	LIS Basollan in Tehsil Baddi Distt. Solan (H.P.)	24.25
		63	LIS Sain Jhandian in Tehsil Nalagarh Distt. Solan (H.P.)	12.10
		64	LIS Lodhi Majra in Tehsil baddi Distt. Solan (H.P.)	16.00
		65	LIS Dai Kanian in Tehsil Nalagarh Distt. Solan (H.P.)	12.00
		66	LIS Theda in Tehsil baddi Distt. Solan (H.P.)	11.00
			<b>Total No. of scheme Nahar Circle= 66</b>	<b>2674.92</b>
	Shimla	1	CAD of LIS Deoli Providing laying and jointing HDPE pipe of various dia in distribution system & C/O C.C. field chennel	107.35
		2	CAD of LIS Dusseran Providing laying and jointing HDPE pipe of various dia in distribution system & C/O C.C. field chennel and C/O 9 Nos. out lets.	25.72
		3	CAD of LIS Ner Pariab Ali Providing laying and jointing HDPE pipe of various dia in distribution system & C/O C.C. field chennel C/O 2 Nos. out lets	9.44
		4	CAD of LIS Chamakri to Passal Providing laying and jointing HDPE pipe of various dia in distribution system & C/O C.C. field chennel and C/O 9 Nos. out lets.	28.35
		5	CAD of LIS Chamakri Providing laying and jointing HDPE pipe of various dia in distribution system & C/O C.C. field chennel and C/O 11 Nos. out lets.	14.98
		6	CAD of LIS Badal Providing laying and jointing HDPE pipe of various dia in distribution system & C/O C.C. field chennel and C/O 4 Nos. out lets.	20.00
		7	CAD of LIS Jalang Providing laying and jointing HDPE pipe of various dia in distribution system & C/O C.C. field chennel and C/O 8 Nos. out lets.	25.00
			<b>Total No. of scheme 7</b>	<b>230.84</b>
	Rohru	1	LIS Kansakoti	21.50
		2	FIS Masli	51.66
		3	FIS Bhatwari	15.82

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Zone	Circle	No.	Name of Scheme	CCA (in hect.)
		4	FIS Gumma	35.18
		5	FIS Dhagoli	7.42
		6	FIS Garshal Banoti	52.12
		7	FIS Badiyara	10.35
		8	FIS Bakholi Badiyara	7.38
		9	FIS Tikkeri	15.15
		10	FIS Dhamwari	11.90
		11	FIS Sashan Kiar	9.50
		12	FIS Chounri	15.14
		13	FIS Mihana	36.00
		14	FIS Bichhan	8.07
		15	FIS Jond Bhajanoo	100.36
		16	FIS Jharag Matasa	32.85
		17	FIS Kiran Area	37.24
		18	LIS Chamsu Phase-I	11.00
		19	Pajol Devgarh Kharki	23.15
		20	LIS Anu Gumma	70.97
		21	FIS Mashran	16.74
		22	FIS Bharanu	10.48
		23	FIS Bhaloo	25.62
		24	FIS Kalara	40.48
		25	FIS Charoli Phase-II	27.54
		26	FIS Charri	11.90
		27	FIS Nar	31.33
		28	FIS Kiarnoo Belag Phase-II	16.04
		29	FIS Kiarnoo Belag Phase-I	48.30
		30	FIS Gumma	21.96
			<b>Total No. of scheme 30</b>	<b>823.15</b>
	R/Peo	1	FIS Kee Maidan in GP Kibber	132.00
		2	FIS Rangrik	165.00
		3	FIS Hansa Lapula	182.00
		4	FIS Sanchok Maidan	45.00
		5	FIS Lari Maidan	53.00
		6	FIS Sagnam Thanka	48.00
		7	FIS Mane Gogma	69.00
			<b>Total No.of scheme 7</b>	<b>694.00</b>
		1	FIS Pooh kuhl in GP Pooh	142.00
		2	FIS Panasaring	162.00
		3	FIS Nothang in GP Chango	125.00
		4	FIS Rispa	55.00
		5	FIS Lower Thankarma	100.00
		6	FIS Rangkulan in Tehsil Kalpa	126.00
		7	FIS Khawangi Tellangi in Tehsil Kalpa	271.00
		8	FIS Powari in Tehsil Kalpa	98.00
		9	FIS Kilba	53.00
		10	FIS Sapni	95.00

Zone	Circle	No.	Name of Scheme	CCA (in hect.)
			<b>Total No. of scheme 10</b>	<b>1227.00</b>
D/shala	D/shala	1	LIS Khera	218.75
		2	LIS Kural	165.07
		3	LIS Punner	17.00
		4	FIS Kandul kuhl	339.53
		5	LIS Purba	140.00
		6	LIS Purba, Balota	100.00
		7	FIS Masandkar	63.58
		8	LIS Naoun	70.04
		9	LIS Massal	34.00
		10	LIS Lilly Dhar	58.75
		11	FIS Pathair Ambari kuhl	174.00
		12	FIS Sadarpur	77.00
		13	FIS Nagni Kaisthwari	106.80
		14	LIS Doley Bharnta	21.10
		15	LIS Thandaol	112.00
		16	LIS Ghrana	55.35
		17	LIS Duhak	72.00
		18	LIS Thapuri	59.52
		19	LIS Nagrota Bagwan	24.50
				20
			<b>Total No. of scheme 20</b>	<b>1967.74</b>
	Chamba	1	FIS Bhanota in G.P. Bhanota	69.65
		2	FIS Sahoo in G.P. Sahoo	79.95
		3	FIS Mangla in G.P. Mangla	59.27
		4	FIS Goli Devi Dehra in G.P. Manola	16.19
		5	FIS Pandol in G.P. Tappar	26.32
		6	FIS Dundiara in G.P. Jiunta	26.90
		7	FIS Jandrog in G.P. Jandrog	48.58
		8	FIS Lahru in G.P. Parchhore	11.74
		9	FIS Bilpur in G.P. Kharggata	14.17
		10	FIS Dhulara Motla in G.P. Motla	32.76
		11	FIS Khaggal in G.P. Sihunta	222.67
		12	FIS Upper Samote in G.P. Samote	77.33
		13	FIS Lower Samote in G.P. Samote	100.34
		14	FIS Nadal in G.P. Parchhore	42.51
		15	FIS Balana in G.P. Balana	38.75
				16
			<b>Total No. of scheme 16</b>	<b>888.69</b>

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