



NEPAL WATER SUPPLY CORPORATION (NWSC)

32nd
Anniversary



Annual Report

15th Falgun 2077 (27th Feb, 2021)

Nepal Water Supply Corporation (NWSC)

Head office

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मा. मणिचन्द्र थापा
मन्त्री

खानेपानी मन्त्रालय
Hon. Mani Chandra Thapa
Minister
Ministry of Water Supply

प.सं.:
च.नं.:

नेपाल सरकार
Government of Nepal



शुभकामना

सिंहदरबार, काठमाडौं, नेपाल
Singha Durbar, Kathmandu, Nepal

मिति:.....
Date:.....



नेपाल खानेपानी संस्थान आफ्नो स्थापनाको ३१ औं वर्ष पार गरी ३२ औं वर्षमा प्रवेश गरेको पावन अवसरमा संस्थानको संचालक समिति, संस्थान व्यवस्थापन तथा सम्पूर्ण कर्मचारीहरू, उपभोक्ता वर्ग एवं सम्बद्ध सबैमा बधाई तथा शुभकामना व्यक्त गर्दछु। संस्थानलाई सवल, सक्षम एवं संस्थानबाट प्रवाह हुने सेवालाई प्रभावकारी बनाउन नेपाल सरकारको तर्फबाट गर्नुपर्ने सहयोगमा खानेपानी मन्त्रालयले निरन्तर सहयोग गर्दै रहने विश्वास दिलाउन चाहन्छु। देशको प्रमुख २३ शहरहरूमा आफ्नो सेवा प्रदान गर्दै आएको संस्थानलाई आफ्नो उद्देश्य प्राप्तिका लागि आगामी दिनहरूमा थप अझ बढी सफलताको लागि शुभकामना व्यक्त गर्दछु।

मिति: २०७७।११।१५

Mani Chandra Thapa
2077/11/15

मा. मणिचन्द्र थापा
मन्त्री

1. Message from the Secretary



पत्र संख्या:-
चलानी नं.:-

नेपाल सरकार

खानेपानी मन्त्रालय



फोन नं.: ४२११६९३
फ्याक्स : ९७७-१-४२११४३३
सिंहदरबार,
काठमाडौं, नेपाल ।

शुभकामना



नेपाल खानेपानी संस्थान आजको मितिले ३२ औं वर्षमा प्रवेश गरेको पावन अवसरमा संस्थानको सञ्चालक समिति, व्यवस्थापन तथा सम्पूर्ण कर्मचारीहरु, उपभोक्ता वर्ग एवं सम्बद्ध सबैमा हार्दिक बधाई तथा शुभकामना व्यक्त गर्न पाउँदा म धेरै नै हर्षित भएको छु । सीमित साधन श्रोतका बावजुद संस्थानको सेवा क्षेत्रमा रहेका पुराना एवं जीर्ण संरचनाहरुलाई मर्मत एवं प्रतिस्थापन गरी दैनिक उपभोग हुने गुणस्तरीय खानेपानी आम उपभोक्ताहरुलाई सरल र सहज ढंगले उपलब्ध गराउने एउटा चुनौतिपूर्ण कार्य निरन्तर रूपमा सम्पादन गर्दै आएकोमा संस्थान धन्यवादको पात्र रहेको छ । संस्थानलाई सवल, सक्षम एवं यसबाट प्रवाह हुने सेवालाई प्रभावकारी बनाउन खानेपानी मन्त्रालयको निरन्तर सहयोग रहने प्रतिवद्धता व्यक्त गर्दछु । देशको प्रमुख २४ शहरहरुमा आफ्नो सेवा प्रदान गर्दै आएको संस्थानलाई आफ्नो लक्ष्य प्राप्तिका लागि आगामी दिनहरुमा अझ बढी सफलता मिलोस् भनी शुभकामना व्यक्त गर्दछु ।

मिति : २०७७/११/१५

Madhav Belbase
माधव बेल्बासे
सचिव
खानेपानी मन्त्रालय

माधव बेल्बासे
सचिव

2. Few words from the General Manager

Nepal Water Supply Corporation has been publishing their Annual Report on the auspicious occasion. This is 32th Anniversary of our organization. I would like to express few words as a General Manager of Nepal Water Supply Corporation by expressing few activities which were performed by the Branch Offices in F/Y – 076/077.



Nepal Water Supply Corporation is the service oriented government owned organization with the responsibility to deliver safe, clean and quality drinking water to their valued customers. In fact, water is the free gift from the nature but due to its uneven spatial distribution, it has to be collected, transmitted, treated and finally delivered to the consumer through close conduit by maintaining its quality as per government guidelines, which requires high investment. NWSC has been expanding its water supply network according to consumer demand by getting loan from the government of Nepal. Due to weak financial condition it is very difficult to perform daily operation and maintenance of electro – mechanical equipments and also distribution network. There are various factors which adversely affected the service delivery of NWSC. These factors are; issue of electrical power cut off, increase fuel price, increase in the market price for the construction materials and finally but not the least, the unplanned and haphazard urbanization.

Our management team did hard labor to settle human resource problems under the proper guidance of Board of Directorate which were persisting since long time. Our management team has prepared Nepal Water Supply Corporation Karmchari Biniyamabali 2076. It is on process for approval from the Ministry. The organization management (O & M), Job Descriptions of different post, Financial Biniyamabali, Norms and training for development of skilled manpower along with water qualities monitoring system have been started by our management team. These works have strengthened our organization and definitely will strengthen more in coming days.

With the concept of seven days twenty-four hour water supply in Lahan municipality our team has been working hard to achieve their goal as signed agreement with Anglian Water, Water Aid and Lahan Municipality in last financial year. The Pokhara Valley water supply improvement work has been smoothly improving as signed agreement between NWSC and Japanese contractor in Japan on 6th March 2019. We are hopeful to deliver water seven days twenty-four hour in Dhangadhi Sub –Metropolitan City and Mahendranagar Municipality by 15th Falgun 2076.

NWSC is always committed to expand its expertise to provide reliable and good service to its valued customers. Though, NWSC has the right to work in both water supply as well as sewerage management in urban and emerging towns of the country; but currently it focuses only in the field of water supply sector. NWSC aims to enter the sewerage management sector as well by mobilization of all available resources both human and capital which will make NWSC as one of the well performing organization in water supply and sewerage management sector. We are excited about the future of NWSC and the role of NWSC in making our great cities even better.

Our organization had signed with Biratnagar and Birgang Metropolitan Cities to deliver seven days twenty-four hour water supply with the concept of one house one connection. The joint team of these municipalities and NWSC will work to develop water supply Master Plan for better services. With the support of government of Japan for improvement of water supply system in Biratnagar, JICA has been working for preparation of DPR.

Finally, I would like to thank to the Ministry of Water Supply, the chairman and the board members of NWSC for their great support and valuable guidance over the years. I would also like to extend my special thanks to all NWSC staffs for their sincerity and hard work, which would be nothing without their enormous contribution. I would also like to express my heartfelt thanks to the trade unions for their continuous support. At last, but not least, I need to thank our valued customers for their support, understanding NWSC circumstances and regular payment of water tariffs.

Dr. Bhupendra Prasad
General Manager

3. Board of Directors

Table 1: Board of Directors of NWSC

S.N.	Name	Designation
1		Chairman
2	Mr. Nrip Bahadur Wod (Dhangadhi Sub Metropolitan City)	Member
3	Mr. Sunil Kr Das (Joint Secretary, Ministry of Water Supply)	Member
4	Mr.Bikash Devkota (Joint Secretary, Ministry of Health & Population)	Member
5		Member
6		Member
7		Member
8		Member
9	Mr. Bhogendra Mishra	Member
10	Mrs. Mina Paudel	Member
11	Mr. Birendra Yadav	Member
12	Mr. Lila Ram Sharma	Member
13	Dr. Bhupendra Prasad	Member Secretary

4. List of General Managers/Chief Executives of NWSC (Beginning to Date)

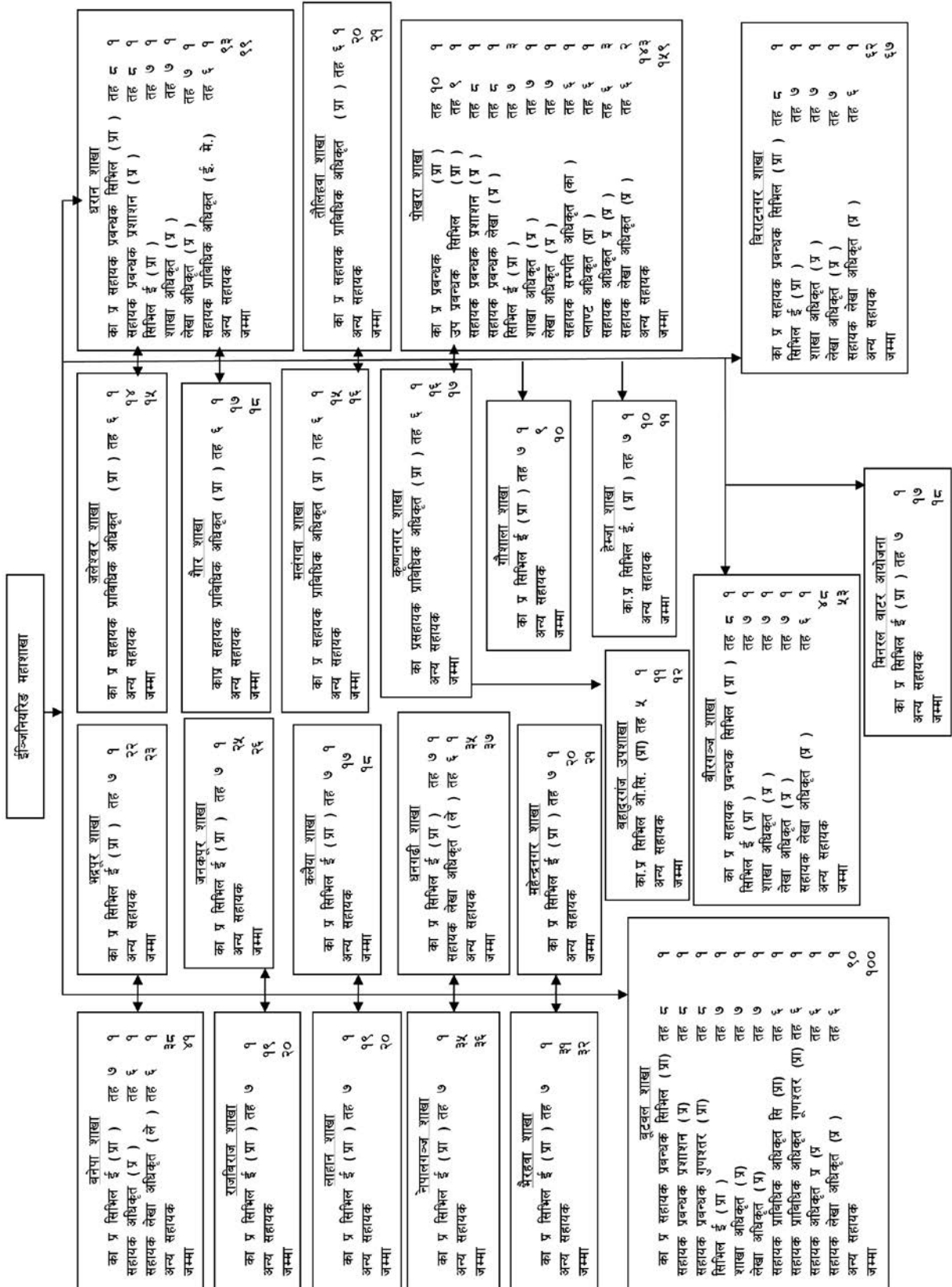
Table 2: List of General Managers/Chief Executive of NWSC (Beginning to Date)

S.No.	Name	Position	Duration From	To (B.S. / A.D)
1	Mr. Ratna Man Shrestha	Project Chief	2031/1974	2038/1981
2	Mr. Ratan Kumar Siddhi	Project Chief	2038/1981	2039/1982
3	Mr. Ratnakar Dutta	Project Chief	2039/1982	2041/1984
4	Mr. Poshan Nath Nepal	General Manager	2041/1984	2044/1987
5	Mr. Shiva Nath Sharma	Executive Chairman	2044/1987	2044/1987
6	Dr. Birendra Pratap Shah	Executive Chairman	2045/1987	2046/1990
7	Mr. Ganesh Raj Sharma	General Manager	2047/1990	2049/1992
8	Mr. Puspa Raj Bista	General Manager	2049/1992	2051/1994
9	Mr. Narendra Man Pradhan	Act. General Manager	2051/1994	2052/1995
10	Mr. Dhruva Bahadur Shrestha	General Manager	2052/1995	2052/1996
11	Mr. Min Bahadur Karki	Executive Chairman	2053/1996	2054/1997
12	Mr. Arun Kumar Ranjitkar	General Manager	2054/1997	2054/1998
13	Mr. Kaushal Nath Bhattarai	General Manager	2054/1998	2056/2000
14	Mr. Lava Kumar Thapa	General Manager	2056/2000	2056/2000
15	Mr. Kaushal Nath Bhattarai	General Manager	2057/2000	2061/2004
16	Mr. Narendra Man Pradhan	Act. General Manager	2061/2004	2061/2004
17	Mr. Dharma Kumar Bajimaya	General Manager	2061/2004	2062/2005
18	Mr. Lava Kumar Thapa	General Manager	2062/2005	2062/2005
19	Mr. Dharma Kumar Bajimaya	General Manager	2062/2005	2064/2007
20	Mr. G. B. Amatya	General Manager	2064/3/14	2065/7/29
21	Mr. Dharma Kumar Bajimaya	Act. General Manager	2065/7/30	2067/10/2
22	Mr. Mahesh Dutta	Executive Chairman	2067/10/03	2068/01/2
23	Mr. Dharma Kumar Bajimaya	Act. General Manager	2068 /1/3	2068/01/13
24	Mr. Mahesh Dutta	Executive Chairman	2068/1/14	2068/02/13
25	Mr. Dharma Kumar Bajimaya	Act. General Manager	2068/2/14	2068/9/18
26	Er. Ram Kumar Yadav	Act. General Manager	2068 /9/19	2068/11/9
27	Mr. Jitendra Singh	Executive Chairman	2068/11/10	2069 /5 /27
28	Mr Bharat Mani Pandey	Act. General Manager	2069/5/28	2069/6/3
29	Dr. Bhupendra Prasad	At. General Manager	2069 /6/4	2069/06/20
30	Mr Bharat Mani Pandey	General Manager	2069/6/21	2069/6/24
31	Dr. Bhupendra Prasad	At. General Manager	2069 /6/25	2070/03/2
32	Er. Arjun Babu Dhakal	General Manager	2070/03/03	2074 /2/16
33	Dr. Bhupendra Prasad	General Manager	2074 /2/16	Till date

5. Head of Organization and Department of Nepal Water Supply Corporation

Table 3: Top Management Professionals of NWSC

S.No	Name	Designation	Working division	Years of Experience
1	Dr. Bhupendra Prasad	General Manager	Head Office	31
2	Er. Ishwar Prasad	Act. Manager	Engineering Division	28
3	Mr.Trideep kumar Shrestha	Act.Deputy Manager	Institutional Service Division	29
4	Mr.Ram Kumar shrestha	Chief of Finance Division	Finance Division	25
5	Mr.kuldev Gyawali	Chief of Audit Division	Internal Audit Division	31



7. Statutory History of NWSC

While going back to history, the populations of Kathmandu Valley were not high, so, government was not too much concern about providing drinking water supply to the people in Kathmandu Valley. During that period, people used to take water from the available natural sources near their homes. However, because of population growth due to both natural growth and in-migration from other districts, the existing available resources were not enough to feed the people and thus, government realized to provide drinking water for the people in the Kathmandu valley and thus established a systematic development of water supply system with the name PANI ADDA (PANI GOSWARA) unit in 2029 BS. The organization has been restructured from time to time in order to provide the better service delivery to the customer. Following were the statutory development records of this organization;

- PANI ADDA or PANI GOSWARA until 2029 BS (May 1973 AD)
- WATER SUPPLY & SEWERAGE BOARD 2029 BS (July 1973 AD)
- (Under the Development Board Act, 1957)
- WATER SUPPLY & SEWERAGE CORPORATION, 2041 BS (July 1985 AD)
- (Under the Corporation Act, 1965)
- NEPAL WATER SUPPLY CORPORATION , 2046 BS (February 1990 AD)
- (Under Nepal Water Supply Corporation Act, 1990)

8. Water Supply Service Area of NWSC

Nepal Water Supply Corporation (NWSC) is a public utility organization; an autonomous government body formed under Nepal Water Supply Corporation Act 2046 BS. NWSC is under the ministry of Water Supply and Sanitation. NWSC provides its services to the 23 cities within the country. Out of them 6 were sub metropolitan city, 17 were municipalities. Following tables shows the service area of NWSC. The district pointed with dot mark as shown in the figure 1 below were the service cities of NWSC.



Figure 1: Location of NWSC service cities in map of Nepal

Table 4: Name of service cities with contact phone nos.

S.N.	Towns	Branch Offices	Districts	Zones	Phone
1	Bhadrapur	Bhadrapur	Jhapa	Mechi	023-520983
2	Biratnagar	Biratnagar	Morang	Koshi	021-523329
3	Dharan	Dharan	Sunsari	Koshi	025-520400
4	Rajbiraj	Rajbiraj	Saptari	Sagarmatha	031-521254
5	Lahan	Lahan	Siraha	Sagarmatha	033-560931
6	Janakpur	Janakpur	Dhanusa	Janakpur	041-520158
7	Jaleswor	Jaleswor	Mahottari	Janakpur	044-520089
8	Gaushala	Gaushala	Mahottari	Janakpur	
9	Malangawa	Malangawa	Sarlahi	Janakpur	046-520450
10	Gaur	Gaur	Rautahat	Narayani	055-520611
11	Kalैया	Kalैया	Bara	Narayani	053-550428
12	Birganj	Birganj	Parsa	Narayani	051-522874
13	Pokhara	Pokhara	Kaski	Gandaki	061-465237
14	Hemja	Hemja	Kaski	Gandaki	
15	Butwal	Butwal	Rupandehi	Lumbini	071-540781
16	Bhairahawa	Bhairahawa	Rupandehi	Lumbini	071-520628
17	Taulihawa	Taulihawa	Kapilbastu	Lumbini	076-560535
18	Bahadurganj	Bahadurganj	Kapilbastu	Lumbini	
19	Krishna Nagar	Krishna Nagar	Kapilbastu	Lumbini	076-520514
20	Nepalganj	Nepalganj	Banke	Bheri	081-520592
21	Dhangadi	Dhangadi	Kailali	Seti	091-524471
22	Mahendra Nagar	Mahendra Nagar	Kanchanpur	Mahakali	099-521133
23	Banepa and Panauti	Banepa	Kavre	Bagmati	011-661220
24	Mineral Water Project	Panauti	Kavre	Bagmati	
Proposed to Take Handover New Water Supply System					
1	Lakshminiya		Mahottari		
2	Balwa		Mahottari		
3	Matihaani		Mahottari		
4	Aaurahii		Mahottari		
5	Suddhodan		Kapilbastu		
6	Dudhauili		Sindhuli		
7	Maharajgunj		Kapilbastu		
8	Haripur		Sarlahi		
9	Bagmati		Sarlahi		
10	Kabilaasi		Sarlahi		
11	Barhatwa		Sarlahi		
12	Basbariya		Sarlahi		
13	Rajdevi		Rauthat		
14	Hariban		Sarlahi		

S.N.	Towns	Branch Offices	Districts	Zones	Phone
15	Chakrahatta		Sarlahi		
16	Siraha		Siraha		
17	Kathauna		Saptari		
18	Mahalakshmi		Dhankutta		
19	Rabi Miklajung Gaaunpallika		Panchthar		
20	Banganga Nagarpallika		Rupandehi		
21	Mayadevi Gaaunpallika		Rupandehi		
22	Bodebassain Nagarpallika		Saptari		
23	Koshi Gaaunpallika		Sunsari		
24	Bellauri Nagarpallika		Kanchanpur		
25	Khanepaani Tatha Sarsafaai Upabhokta Samiti Gaushala nagarpallika,1 Ramnagar(Mahottari)		Mahottari		
26	Punarbaas Nagarpallika		Kanchanpur		
27	Madi		Chitwan		

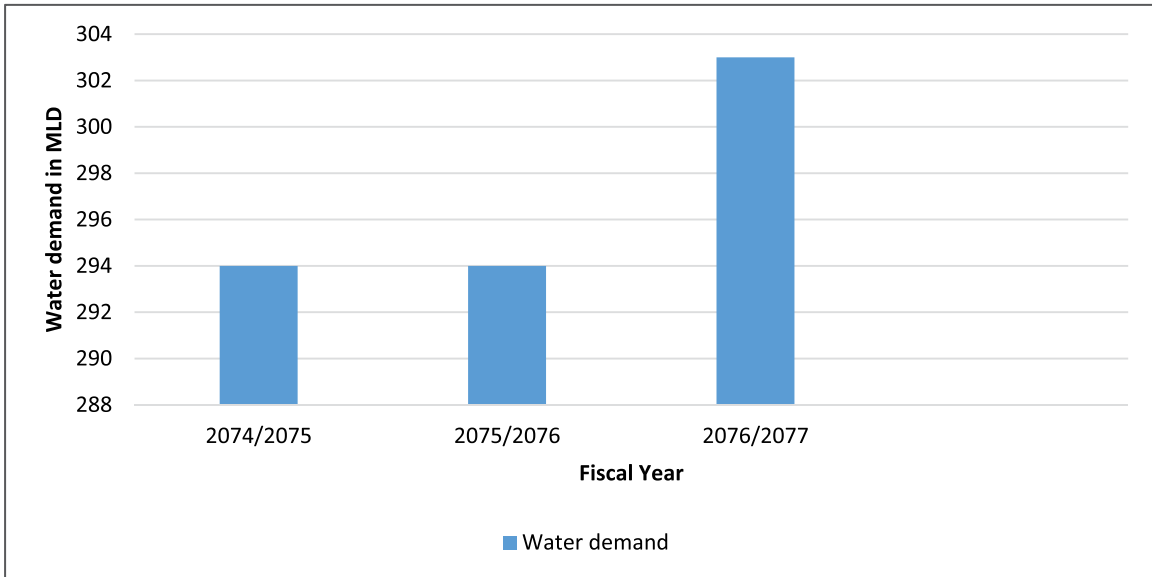
9. A) Technical Status

A. WATER SUPPLY

S.No.	Description	Unit	F/Y- 075/076 (2020/2021)
1	Water Demand (With Leakage)	MLD	303
2	Water Production		
	In Dry Season	MLD	121.69
	In Wet Season	MLD	150.71
	Expected		
	Surface Water	MLD	
	Ground Water	MLD	
3	Average Production	MLD	136.21
4	Deep Tube Wells are in		
	- Working	Nos.	110
	- To be Repaired	Nos.	12
	- Not repairable		12
5	Dug Wells	Nos.	3
6	Sump Wells	Nos.	2
7	Surface Intakes	Nos.	18
8	Water Delivery (After Leakage)		
	In Dry Season	MLD	82.71
	In Wet Season	MLD	102.43
9	Average Leakage	%	30
10	Deficit		
	In Dry Season	MLD	175.85
	In Wet Season	MLD	147.67
11	Total Water Connection		143857
	Private Metered Taps	Nos.	139371
	Private Unmetered Taps	Nos.	1382
	Government Metered Connections	Nos.	1456
	Government Unmetered Connection		625
	Public Stand post		1023
12	Total Population Served	Thousand	2663
13	Service Reservoirs		
	Ground Tank	Nos.	17
	Overhead Tank	Nos.	36
14	Water Treatment Facilities		
	With full Treatment System	Nos.	17
	Partly	Nos.	1
	Chlorination Only	Nos.	35
15	Water Tankers	Nos.	6
16	Mini Excavators	Nos.	2

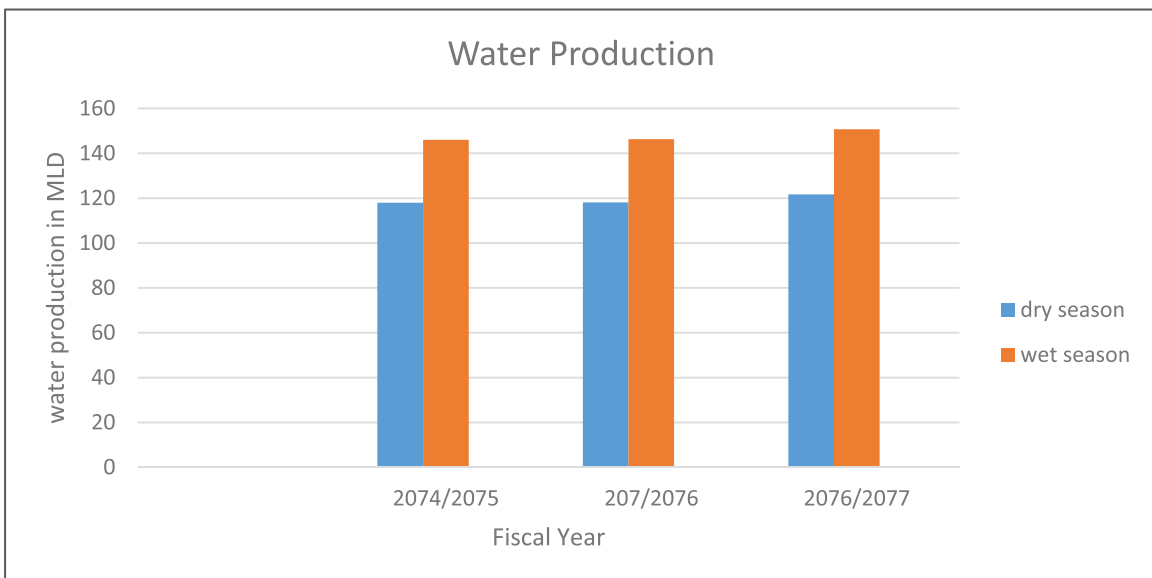
B) Water Demand

S.No.	Fiscal Year	Unit	Water Demand
1	2074/2075	MLD	294
2	2075/2076	MLD	294
3	2076/2077	MLD	303



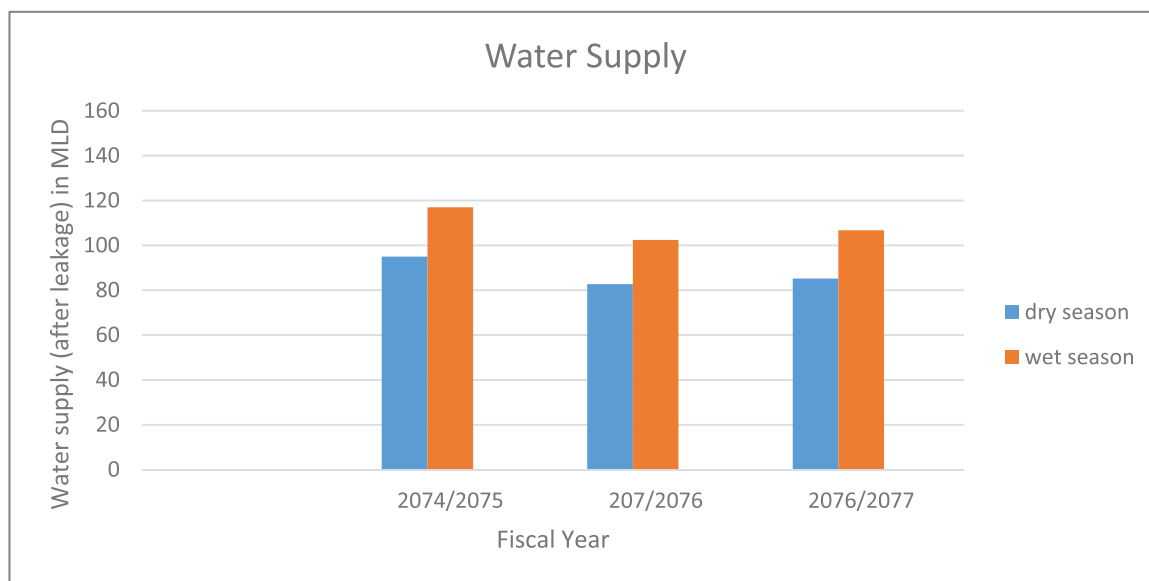
C) Water Production

S. No.	Fiscal Year	Unit	Water Production	
			Dry Season	Wet Season
1	2074/2075	MLD	118	146
2	2075/2076	MLD	118.15	146.33
3	2076/2077	MLD	121.69	150.71



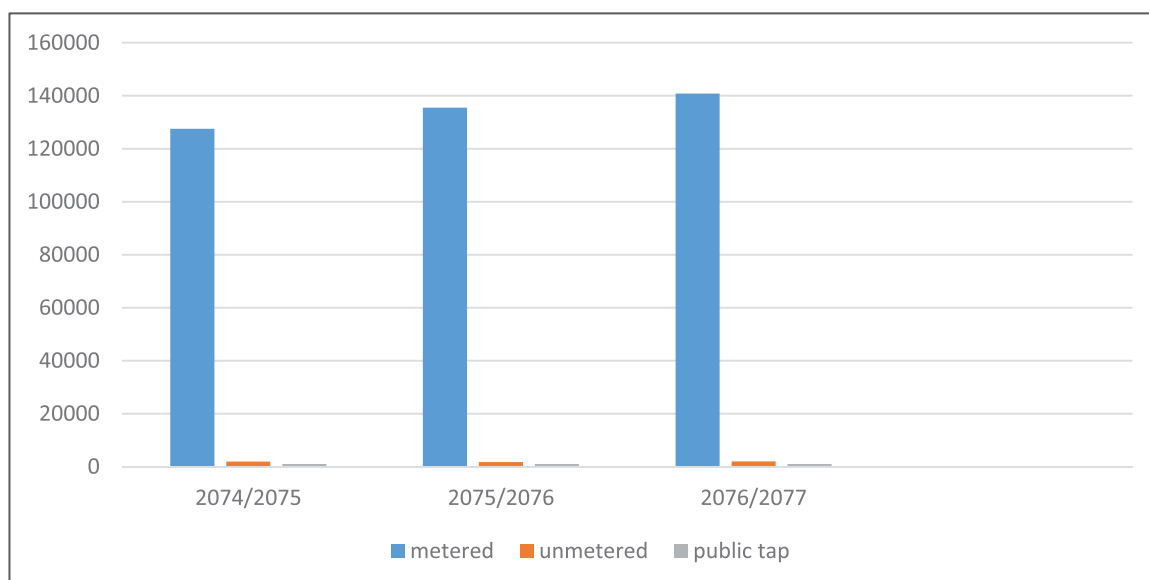
D) Water Supply (After Leakage)

S. No.	Fiscal Year	Unit	Water Supply(After Leakage)	
			Dry Season	Wet Season
1	2074/2075	MLD	95	117
2	2075/2076	MLD	82.71	102.43
3	2076/2077	MLD	85.18	105.49



E) Number of Water tap Connections

S. No.	Fiscal Year	Unit	Number of Water Connections			
			Metered	Unmetered	Public Tap	Total
1	2074/2075	Nos.	127541	1950	1043	129491
2	2075/2076	Nos.	135472	1763	1021	138256
3	2076/2077	Nos.	140827	2007	1023	143857



10. Personnel Status

A. Staffs

S. No.	Description	F/Y- 2077/2078 (2020/2021)
1	Approved Post	933
2	Permanent	282
3	Contract	364
4	Officers (Permanent)	48
5	Non Officers (Permanent)	234
6	Technical (Permanent)	113
7	Administrative(Permanent)	169
8	Total no. of staffs	646

B. Approved Post

S. No.	Offices	Approved Post	Presently Working	
			Permanent	Contract
1	Head Office	43	22	10
2	Bhadrapur	23	11	10
3	Biratnagar	67	22	28
4	Dharan	99	16	18
5	Rajbiraj	20	9	9
6	Lahan	20	7	4
7	Janakpur	26	14	8
8	Jaleswor	15	5	2
9	Gaushala	10	7	6
10	Malangawa	16	4	7
11	Gaur	18	8	7
12	Kalaiya	18	5	5
13	Birganj	53	16	13
14	Pokhara	159	44	58
15	Hemja	11	4	7
16	Butawal	100	27	45
17	Bhairahawa	32	8	20
18	Taulihawa	21	3	8
19	Bahadurganj		2	4
20	Krishnanagar	17	10	6
21	Nepalganj	36	6	23
22	Dhangadhi	37	11	16
23	Mahendranaga	21	8	7
24	Banepa	41	11	31
25	Mineral Water Project	18	2	12
	Total	933	282	364
Number of staff per 1000 connection		= 4.49		
Number of staff per 1000000 lit. Production		= 4.74		

11. Financial Status

Table 5: Financial Status

S. No.	Descriptions	F/Y- 076/077 (2019/020) (N. Rs.)	F/Y- 075/076 (2018/019) (N. Rs.)	F/Y- 074/075 (2017/018) (N. Rs.)
		Provisional	Audited	Audited
1	Capital and Liabilities			
	Capital and Fund	846528186.40	846528186.40	846528186.40
	Capital Reserve Fund	95549540.06	97001504.71	95595569.50
	Long Term Loan	9057593057.00	6717005516.00	5057005516.00
	Current Liabilities	1758707081.95	1332451388.05	1862509506.85
	Total	11758377865.41	8993146545.16	7861638778.75
2	Assets and Properties			
	Net Fixed Assets	3432711424.76	2809906423.85	2367032747.67
	Work in Progress	1646384663.27	488356601.21	619524567.34
	Total (A)	5079096098.22	3298263025.06	2986557315.01
3	Current Assets			
	Advance Tax Payment	56718741.74	27460068.28	11225505.92
	Receivables	574087460.21	656471774.15	580871257.40
	Advance & Deposit	75027872.20	54496173.32	139295830.09
	Life Insurance Fund	15322896.65	15322896.67	15322896.67
	Stock Inventories	714596676.36	737311566.62	149708690.33
	Bank & Cash Balance	3286858465.58	2826739504.95	2718627756.12
	Total (B)	4750642971.72	4317801983.99	3615051936.53
4	Accumulated Loss			
	(Total C)	1928638795.46	1377081983.99	1260029527.20
	Total (A+B+C)	11758377865.41	8993146545.16	7861638778.75

Table 6: Profit & loss account of last three years

S. No.	Descriptions	F/Y- 076/077 (2019/020) (N. Rs.)	F/Y- 075/076 (2018/019) (N. Rs.)	F/Y- 074/073 (2017/018) (N. Rs.)
		Provisional	Audited	Audited
1	Income			
	Water Revenue (After Rebate)	370111142.11	608486587.56	581340256.18
	Other Income	244911085.34	178560533.10	94512541.96
	Total	615022227.45	787047120.66	675852798.14
2	Expenditure			
	Production	201374010.92	191782106.53	183277432.09
	Distribution	112181667.29	84761578.90	76573930.68
	Quality Control	4633868.48	4549211.58	3747042.90
	Consumer's Account	72118952.23	61337883.16	62535381.08
	Administrative Expenses	159853010.49	127643600.52	136660488.63
	Provision For Audit Fee	0.00	0.00	0.00
	Stock Sale Expenditure	1500022.43	2553019.36	2671909.90
	Provision for B/D	8238431.40	7560051.68	5079727.64
	Provision for Gratuity Fund	140745559.15	87254522.39	18155957.30
	Provision for life Insurance fund	948910.33	1565802.84	205251.71
	Total	685137569.92	569007776.96	488907121.93
	Operating Surplus (Deficit)	70115342.47	218039343.70	-18694567621
	Interest Payable	-376559246.56	-255396084.56	-117508676.35
	Depreciation	-106870135.70	-89898103.62	-58751960.17
	Depreciation Transferred from	2110765.65	1949044.79	
	Capital Reserved			1949044.79
	Net Profit (Loss)	-551433859.08	-125305799.68	-54787099.08
	Last Year's Adjustment	15256.97	8253790.78	-4574746.11
	Upto Previous Year	-1377220093.35	-1260029527.20	-1200667682.01
	(Accumulative Loss)			
	Accumulated Loss Carried to B/S	-1928638795.46	-1377081536.11	-1260029527.20

12. Proposed Budget for Coming Three Financial Year

S. No.	Heading	Financial Year												Remark.
		2075/076(2101000)			2076/077(2626250)			2077/078(50113101)						
		Qty.	Unit	Amount (000)	Qty.	Unit	Amount (000)	Qty.	Unit	Amount (000)				
	Increment of water production Program(Budget S.No. 501126) Government of Nepal													
1	Construction of Deep Tube well at different branch offices.	12	Nos.	74000	12	Nos.	74000	7	Nos.	25000				
2	Procurement of pump sets.(Submersible and Buster)	55	Nos.	21000	60	Nos.	210000	25	Nos.	12500				
3	Procurement of Transformer and Voltage stabilizer.	5	Nos.	2500	10	Nos.	5000		Nos.					
4	Procurement of Generator stabilizer.	2	Nos.	4000	2	Nos.	4000		Nos.					
5	Design and Constructio n of Water Treatment Plant or Procurement of Water Treatment equipments	3	Nos.	20000	3	Nos.	20000	1	Nos.	4500				
	Construction of water tanks.													
6	a.Continuity over head tanks.	6	Nos.	70000	6	Nos.	70000	6	Nos.	55002				
	b.Construction of over head tanks.	2	Nos.											
7	Operation & Rehabilitation works of Deep Tube Wells.	12	Nos.	40000	12	Nos.	44000		Nos.					
8	Hemja Water supply Project	1	Nos.	30000	1	Nos.	10000	1	Nos.	30000				
9	400 & 500 mm dia. Water production pipe protection work from Mardi & Seti River at Pokhara	1	Job	30000	1	Job	30000	1	Job	10000				
10	Reconstruction of Bhote Khola Infiltration Gallery along with Pro-duction Pipe line													
	Protection of Mardi Dam & improvement of river surface & various segment of pipe alignment							1	Job	15000				
11	Reconstruction of Majhkuna, Dhatekuna along with other sources Intake along with Production Pipe line													
12	Installation of Solar for operation of Deep Well along with Procure-ment of Solar Psubmersible Pump	6	5	Nos.	16000	5	16000	5						
13	Water production work from Rapti River Nepalganj.													
14	Water Supply Improvement Work of Butwal Municipality	1	Job	250000						30000				
15	Water Supply Improvement Work of Nepalganj Municipality	1	Job	200000						40000				

S. No.	Heading	Financial Year												Remark.
		2075/076(2101000)			2076/077(2626250)			2077/078(50113101)						
		Qty.	Unit	Amount (000)	Qty.	Unit	Amount (000)	Qty.	Unit	Amount (000)				
	Increment of water production Program(Budget S.No. 501126) Government of Nepal													
16	Water Supply Improvement Work of Biratnagar Sub-Metropolitan City	1	Job	296500	1	Job	450000	1	Job	150000				
17	Water Supply Improvement Work of Rajbiraj Municipality	1	Job	200000	1	Job	250000	1	Job	15000				
18	Water Supply Improvement Work of Birganj Sub-Metropolitan City	1	Job	290000	1	Job	350000	1	Job	20000				
19	Water Supply Improvement Work of Dhangadhi Sub-Metropolitan City	1	Job	300000	1	Job	260000	1	Job	50000				
20	Water Supply Improvement Work of Mahendranagar Municipality	1	Job	200000	1	Job	210000	1	Job	53000				
21	Water Supply Improvement Work of Bhadrapur Municipality				1	Job	140000	1	Job	15000				
22	Water Supply Improvement Work of Krishnanagar Municipality				1	Job	100000	1	Job	10000				
23	Water Supply Improvement Work of Taulihawa Municipality				1	Job	100000	1	Job	25000				
24	Water Supply Improvement Work of Kalaiya Municipality				1	Job	100000	1	Job	15000				
25	Water Supply Improvement Work of Malangwa Municipality				1	Job	100000	1	Job	20000				
21	Procurement and installation of flow meter with necessary fittings .	60	Nos.	3000	70	Nos.	3250		Nos.					
22	Water Safety Plan (WSP)	15	Nos.	70000	20	Nos.	80000		Nos.					
23	Water Supply Improvement Work of Lahan Municipality							1	Job	40000				
24	Water Supply Improvement Work of Janakpur Municipality							1	Job	15000				
25	Water Supply Improvement Work of Jaleswor Municipality							1	Job	15000				
26	Water Supply Improvement Work of Gausala Municipality							1	Job	20000				
27	Water Supply Improvement Work of Gaur Municipality							1	Job	20000				
28	Water Supply Improvement Work of Pokhara Metropolitan City							1	Job	50000				
29	Water Supply Improvement Work of Bhairahawa Municipality							1	Job	20000				
30	Water Supply Improvement Work of Bahadurgunj Municipality							1	Job	10000				
31	Water Supply Improvement Work of Banepa Municipality							1	Job	5000				

S. No.	Heading	Financial Year										Remark.
		2075/076(2101000)			2076/077(2626250)			2077/078(50113101)				
		Qty.	Unit	Amount (000)	Qty.	Unit	Amount (000)	Qty.	Unit	Amount (000)		
	Increment of water production Program(Budget S.No. 501126) Government of Nepal											
32	Repair maintenance work for Pokhara Water Supply Improvement work under Jaica Project and for all hand-overed new branches improvement							1	Job	150000		
33	Butwal Water Supply Improvement Project (Mutiyear)							1	Job	399998		
	Total			2101000						2626250		

Proposed Budget for Coming Three Financial Year												
S. No.	Heading	Financial Year									Remark.	
		2075/076 (237445)			2076/077 (308679)			2077/078 (50113102)				
		Qty.	Unit	Amount (000)	Qty.	Unit	Amount (000)	Qty.	Unit	Amount (000)		
	Increment of water production Program(Budget S.No. 501127) Government of Nepal											
	Water supply and sewerage program											
1	Clean City Program.	21	Nos.	4645	21	Nos.	6845					
2	Pipe line extension and water supply improvement works in 23 towns. Bhadrapur,Biratnagar,Dharan, Rajbiraj, Lahan,Janakpur,Jaleswor, Malangwa, Gaur, Kalaiya,Birganj,Pokhara, Hemja, Butwal, Bhairahawa,Taulihawa, Bahadurganj, Krishnanagar, Nepalganj,Dhangadhi ,Mahendranagar Banepa and Panauti	43	Nos.	120000	43	Kms.	190000	1	Job	130000		
3	Replacement of pipe line work at Pollution zone & New VDCs	6	Kms.	12000	6	Kms.	11000					

13. Completed Projects in FY 2076/077 (2019/020)

A. Water Production Improvement (B. S. S. No. 50113101)

S.No.	Description	Qty	Unit
1	New Tube well construction	07	Nos.
2.	Procurement of Pump Set	50	Nos.
3.	Construction of Overhead tank (OHT) (Mahendranagar (2),Dhangadhi (2),Birgunj	05	Nos.
4.	Operation of Deep Tube Wells	07	Nos
5.	Hemja Water Supply Project	01	Job
6.	Procurement of Land at Hemja for construction of WTP	01	Job.
7.	Pipe Line (400 & 500 mm Dia .) protection work Rapti river	01	Job

B. Water Supply & Sewerage Work (B. S. S. No. 50113102)

S.No.	Description	Qty	Unit
01	Pipe line Extension Work in all branch	45	Km.
02.	Replacement of Old Pipe Line	15	Km.
03.	Procurement of Vehicle	04	Nos.
04.	Construction of Office Building (Head office,Butwal water supply project,gaushala ,Janakpur)	04	Nos

14. Ongoing Projects in FY 2077/078 (2020/2021)

A. Water Production Improvement Work (B. S. S. No. 50113101 & Internal Budget)

S.No.	Description	Qty	Unit
1.	New Deep Tube well construction	07	Nos.
2.	Procurement of Pump Set	50	Nos.
3.	Construction of new OHT Magendranagar-2, Malangwa-1, gaur-1, Kalaiya-1, Bhadrapur-1, Taulihawa-1, Krishnanagar-1.	08	Nos
4.	Operation of Deep Tube Wells	7	Nos.
5.	Pipe protection works (400mm and 500mm diameter) from Mardi and Seti River.	01	Job
6.	Water Supply system improvement works Bhadrapur	01	Job.
7.	Water Supply system improvement works Biratnagar	01	Job.
8.	Water Supply system improvement works Rajbiraj	01	Job.
9.	Water Supply system improvement works Lahan	01	Job.
10.	Water Supply system improvement works Janakpur	01	Job.
11.	Water Supply system improvement works Gaushalaa	01	Job.
12.	Water Supply system improvement works Malangwa	01	Job.
13.	Water Supply system improvement works Gaur.	01	Job.
14.	Water Supply system improvement works Kalaiya	01	Job.
15.	Water Supply system improvement works Birganj	01	Job.
16.	Water Supply system improvement works Butwal	01	Job.
17.	Water Supply system improvement works Bhairahwa	01	Job.
18.	Water Supply system improvement works Krishnanagar	01	Job.
19.	Water Supply system improvement works Dhangadi	01	Job.
20.	Water Supply system improvement works Mahendranagar	01	Job.
21.	Pokhara water supply Improvement project.	01	Job.
22.	Butwal water supply improvement work	01	Job.
23.	Beacon project at Lahan	01	Job.
24.	Nepalgunj water supply improvement project	01	Job.

B. Water Supply & Sewerage Work (B. S. S. No. 50113102)

S.No.	Description	Qty	Unit
01.	Pipe line extension and improvement works as well as replacement of old pipes in 23 branches	55	K.m.
02.	Execution of JICA project (Pokhara & Biratnagar)	02	Job.
03.	Execution of Butwal water supply project	01	Job.
04.	Execution of Rapti water supply project	01	Job.

15. Other Activities

A. Implementation of Water Safety Plan

Water Safety Plan is a simple tool to confirm actual quality of water at different points of water supply system like at source, treatment plant, water storage tank, distribution system and consumer taps. This mechanism will help to minimize the chances of contamination of supplied water.

B. Quality Control

NWSC has its own full scale water quality analysis Laboratory at Butwal. Mr. Ajay Giri is chief of that laboratory. This laboratory has been facilitated to analyze Physical, Chemical and Bacteriological water quality parameters. We have trained one person from each branch offices and facilitate with NPHO field kit water quality analysis equipment to analyze daily distributed water quality.

- C. The Beacon Initiative is an opportunity to take WaterAid’s partnership with Anglian Water one step further for a long-term collaboration with WaterAid Nepal and the Nepal Water Supply Corporation (NWSC) with the mandate of managing water supplies in 23 small and medium town of NWSC.

The aim of the Beacon Initiative focusing initially on Lahan and then more widely in other municipalities where NWSC operates, is to develop a model with joined up thinking, systems and inter-organizational relations are embedded to deliver a sustainable and resilient municipality-wide water supply.

The Beacon Initiative, therefore, provides a unique opportunity to bring together the Anglian Alliance, WaterAid Nepal, the Nepal Water Supply Corporation (NWSC), local communities and the Government to trial a truly sustainable approach to municipality-wide water provision, making significant contribution to delivering Nepal’s WASH plan and transforming the role of water utilities in Nepal for years to come.

D. Water Tanker Service



Public Supply from Tanker

- E. **Audit :** The financial audit for the fiscal year 2071/072, 2072/073, 2073/074, 2074/075, 2075/076 has been completed and submitted to Nepal government and pending work for the Financial year 069/070, 070/071, 076/077 is going on and hope it will be completed by time.

F. Butwal Water Supply Improvement Project :

Butwal Water Supply Improvement Project has started in the fiscal year 2076/077. The main objectives of this projects are to meet water demand, to deliver 24/7 day water supply, to serve and supply quality water as per NDWQS , to connect the total houses of Butwal city with water supply system (i.e one house one connection).

G Biratnagar Water supply improvement project

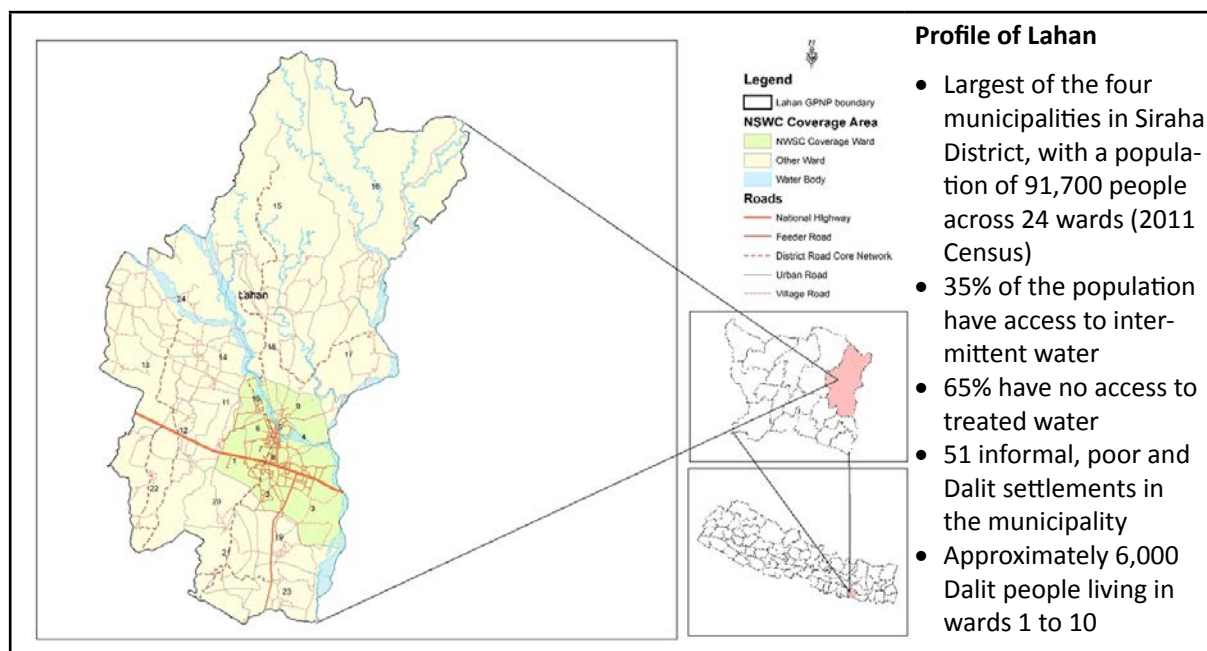
The JICA consultant has started the study of Biratnagar water supply improvement project The detailed survey design work is in its final stage. The main objectives of this project are to improve water supply system and provide one house one connection. The Project implementation period will be approximately 3 years from November 2021 to October 2024 (tentative) .

H. Nepalganj Water Supply Project

The fulfillment of the demand of the drinking water is not being met at present .So ,as per the government policy Nepalganj branch office is going to provide one house one tap connection and increase the supply hours.To meet the above purpose NWSC has started Rapti Water supply project from 2073 .

I. Beacon project :

From source to tap - improving water supply in Lahan Learning from the Beacon Project



Executive Summary

The Beacon Project is a long-term partnership between the UK water company Anglian Water and its Alliances, WaterAid Nepal, the Nepal Water Supply Corporation (NWSC), the Ministry of Water Supply and Lahan Municipality, which was initiated in 2016 and implemented from 2017. The Project aims to achieve sustainable municipality-wide safe water and sanitation for all and create a model which can be replicated in other municipalities and NWSC branch offices in Nepal. Creating a legacy that grows is central to the Beacon Project and therefore learning will be documented and shared as the project develops.

This report does not cover all aspects of the Beacon Project, but focuses on improvements to the NWSC water supply system in Lahan. It documents major activities, impact and lessons learnt across seven technical areas, which can each be read as stand-alone case studies, but together show how the Beacon Project has contributed towards change across the whole system from source to tap.

–Strategic planning for water resources in Lahan is becoming an increasingly important topic as more households are connected to the network and the population is forecast to grow significantly. The Beacon Project has supported two hydrogeological studies by students from Tribhuvan University, initiated groundwater monitoring and is helping to improve collaboration between the different stakeholders which will be essential to develop an integrated water resources plan.

–The NWSC water supply system currently relies on groundwater abstracted from deep tubewells. However, NWSC have encountered problems with boreholes failing due to the ingress of fine sand which has led to high turbidity in the network and ultimately caused boreholes to silt-up. The Beacon Project has supported better protection of existing boreholes, decommissioning of old boreholes, and assisted NWSC to develop a new technical specification for drilling which has been endorsed and rolled-out across all 23 branch offices. One of the learnings from the Project has been the importance of onsite supervision by an independent hydrogeologist during the drilling process; an experienced hydrogeologist has recently been appointed to supervise the next three boreholes to be drilled in Lahan. A CCTV camera was also donated to NWSC and training provided for the branch managers on using this to survey existing boreholes and identify problems.

–Water quality monitoring was previously undertaken on an ad hoc basis due to lack of resources. Surveillance has now improved with samples from the boreholes being tested monthly, field test kits provided for NWSC staff to monitor basic parameters on a regular basis, and sample taps installed by NWSC at each borehole according to a specification provided by Anglian Water. A Water Safety Plan team was also established and trained and NWSC has allocated budget to recruit a dedicated water quality chemist for the Lahan office. Water quality data is now shared and discussed regularly at the local co-ordination meetings, illustrating the increased importance both NWSC Lahan and the Municipality attribute to it.

–To reduce turbidity some improvements have been made to the sedimentation tank and both this and the overhead tank are now flushed out on a more regular basis. Manually emptying chlorine powder into the

Key achievements/ progress

- CCTV borehole surveys
- Development of new drilling specification for boreholes, adopted by all NWSC branches
- Land allocated for future drilling in Lahan
- Regular water quality monitoring established and budget allocated for dedicated WQ chemist
- Chlorine dosing improved
- Over 286 pipeline leaks repaired
- Hydraulic model developed for the network and detailed planning for first two District Metered Areas (DMAs)
- Increase in water supply by an average of one hour per day
- Over 250 Dalit households accessing safe water from communal taps

sedimentation tank has been replaced by a simple chlorine dosing pump, while designs have been prepared for a permanent inline chlorination system, which will be installed in the coming three months. It will be important to learn from past failures of the original chlorine dosing system to ensure this is sustainably managed.

One of the early quick wins in the Project was supporting NWSC staff with training and equipment to detect and repair leaks in the pipeline. As of October 2020, 286 leaks had been repaired and all the taps at the public tapstands have been replaced. Improved protocols have also been developed for installing and commissioning new pipeline to reduce the risk of future leaks. Sustaining this progress requires thinking through how to incentivise prioritising the reduction of non-revenue water.

–Previous information on the network was incomplete and sometimes inaccurate. The Beacon Project has supported NWSC to conduct a drone survey to build up a very accurate GIS map, and customer connections were physically checked and tagged. Based on this map a detailed hydraulic model has been developed, which shows where improvements are needed to ensure adequate pressure is maintained throughout the network. This has also facilitated plans to introduce District Metered Areas (DMAs). DMAs allow for a utility to test and achieve continuous water supply within a specific area in isolation from the rest of the system. The network will be divided into six DMAs, and detailed plans have been prepared for two areas to begin the transition to 24/7 supply.

One of the aims of the Beacon Project is to ensure that services reach the marginalised and vulnerable communities. A significant achievement has been extending the piped network to four Dalit communities in Lahan who previously relied on inadequate and unsafe water points. 37 shared tapstands have been provided serving 253 households, and further improvements have also been supported on sanitation and hygiene.

These seven chapters reflect the important steps taken across different aspects of water supply in Lahan in response to various physical, technical and resource-based challenges. The progress made and the lessons learned indicate the importance of working on both technical issues as well as strengthening coordination, monitoring and accountability to achieve sustainable results. This approach will be explored in a follow-up study that looks at the system strengthening aspects of the Beacon Project in detail.

Introduction

The Beacon Project is a unique long-term partnership (up to 2030) between the UK water company Anglian Water and its Alliances (AWA), WaterAid Nepal, the Nepal Water Supply Corporation (NWSC)¹, the Ministry of Water Supply, and the municipality of Lahan, to achieve sustainable municipality-wide safe water and sanitation services. The project’s approach seeks to strengthen capacity and accountability, deliver sustainable solutions through partnerships, and empower the poorest and most marginalised to access safe water, sanitation and hygiene (WASH). The Beacon Project aims to develop and demonstrate holistic solutions that work across communities, local government and utilities, and ultimately contribute to Nepal’s journey towards the Sustainable Development Goals (SDGs).

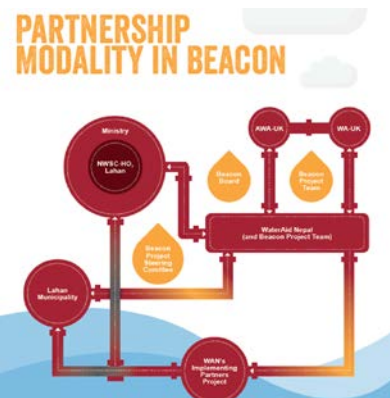
The Beacon Project outcomes are summarised below.

Beacon outcomes 2020-2030

The above wheel shows the outcomes the project intends to achieve in the centre with the accountabilities for each outcome shown in the outer rings. The central outcome of a legacy that grows is shown in the middle, as each of the other outcomes contributes to this outcome.

- **Water security** – long-term sustainable sources of water for all users which enable economic development (new homes and businesses, agriculture and tourism), improve public health and are resilient to future challenges around climate change and the need to protect and enhance the environment for now and future generations.
- **Safe, clean water** – the water that is available to people to use is safely managed and a suitable quality for the purpose for which it is to be used
- **Sanitation with dignity**—people in Lahan believe in the importance of hygiene and sanitation. They have safely-managed sanitation facilities and improved hygiene practices in the home, schools and health-care facilities.
- **Sustainable faecal sludge management**—Lahan is known as having a clean environment, with faecal sludge being safely managed and contributing to the local agricultural economy
- **A legacy that grows** – organisations responsible for the management of water in Lahan are trusted by users and stakeholders and use gender and case equality as founding principles. Learning from the project is shared to increase capabilities wider in Nepal.

The Beacon Project was initiated in 2016 with scoping and assessment by WaterAid and Anglian Water and implemented from 2017. The governance structures of the Project was established and agreements formally signed between collaborating partners in September 2018.



¹ NWSC is a public utility organisation, an autonomous government body formed under Nepal Water Supply Cooperation Act 2046 (1988) providing water supply to 24 towns in Nepal, including Lahan.

The Project is a collaborative effort where each partner brings in its specific area of expertise to co-create a dynamic and impactful project. The Anglian Water and Alliances (AWA) provides partial technical and financial support to NWSC for its Lahan Branch to introduce standard practices and technological innovations in close coordination with WaterAid Nepal. WaterAid Nepal facilitates the implementation of activities on the ground working closely with NWSC Lahan, Lahan municipality, and local NGO partner Dalit Jana Kalyan Yuba Club (DJKYC). The combination of capacity building and hands-on implementation support is transforming WASH services in Lahan towards a model that can inspire and guide the other 23 NWSC branches and make the right to water and sanitation real for all, particularly marginalised and vulnerable communities.

Purpose and scope of this learning document

One of the key outcomes from the Beacon Project is “a legacy that grows” and an integral part of this is documenting and sharing the learning as the project develops.

Rather than trying to capture everything in one report, the scope of this document is focused on sharing achievements and learning with regards to improvements to the NWSC water supply system in Lahan. It documents major activities, progress made and lessons learned since the start of the project across technical areas, taking a ‘source to tap’ approach to trace how Beacon has contributed to each stage of service provision to achieve improvements across the entire system of piped water supply.

This learning document will be followed by others including an in-depth study on the system strengthening aspects of the Beacon Project.

Note: For detail please look the Technical Learning Document



CCTV Camera Survey

16. Water Quality Standard Adopted By NWSC

Table 7: Nepal's Drinking Water Quality Standards

Group	Parameter	Unit	Maximum Concentration Limits
	Turbidity	NTU	5 (10)**
	pH		6.5-8.5*
	Color	TCU	5 (15)**
	Taste & Odor		Would not be objectionable
	Total Dissolved Solids	mg/l	1000
	Electrical Conductivity	µc/cm	1500
	Iron	mg/l	0.3 (3)**
	Manganese	mg/l	0.2
	Arsenic	mg/l	0.05
	Cadmium	mg/l	0.003
	Chromium	mg/l	0.05
	Cyanide	mzg/l	0.07
	Fluoride	mg/l	0.5-1.5*
	Lead	mg/l	0.01
	Ammonia	mg/l	1.5
	Chloride	mg/l	250
	Sulphate	mg/l	250
	Nitrate	mg/l	50
	Copper	mg/l	1
	Total Hardness	mg/l	500
	Calcium	mg/l	200
	Zinc	mg/l	3
	Mercury	mg/l	0.001
	Aluminum	mg/l	0.2
	Residual Chlorine	mg/l	0.1-0.2*
Micro Germs	E-Coli	MPN/100ml	0
	Total Coli form	MPN/100ml	95 % in sample

Note : * These standards indicate the maximum and minimum limits.

** Figures in parenthesis are upper range of the standards recommended.

Sources:

-Environment Statistics of Nepal 2008, Government of Nepal, National Planning Commission Secretariat, Central Bureau of Statistics, Kathmandu, Nepal

17. Tariff Structure of Piped Water Connection

Tariff structure of piped water was just revised and effective from 1st Falgun 2070. This structure is also insufficient for operation and maintenance, for launching new projects, uplifting the quality of tap water etc. The following table shows the present tariff structure of piped water.

Table 8: Tariff structure of piped water

S.N.	Connection size in Inch	Minimum consumption in Litrs	Metered Tap		Unmetered Tap	
			Minimum charge in NRs	Additional charge per 1000 litrs in NRs	Main Tap	Branch tap
1	½"	10000	110	25	560	200
2	¾"	27000	1490	40	3360	1600
3	1'	56000	3420	40	9200	2700
4	1 1/2"	155000	9600	40	20700	6500
5	2"	320000	21600	40	42300	12000
6	3"	881000	49500	40	131400	33000
7	4"	1810000	97200	40	250200	62000

Tariff per month for public tap is NRs 1600.00

Tariff structure of sewer line connection has approved 50% of the piped water bill.

Tariff structure for water deliver by tankers

Table 9: Rate for tanker delivery of water

S.N.	Capacity of tanker in Liters	Rate in NRs (Including service charge)
1	5000	1950
2	6000	2200

18. Problems & Challenges

Problems

- Requires new water supply system in reformed Municipalities boundary.
- Requires huge budget to expand existing water supply system.
- Low water tariff does not match with investment cost.
- Rehabilitation work requires high investment.
- Due to the Pandemic of COVID-19, day to day works of the branch office as well as the development works were hampered.
- Even though water is produced, the existing distribution system is in a disapidated condition, which leads to high water leakage and the people complains regarding it.
- Not being able to extend the pipeline as per the demand of the consumers as the work has to be done within the perimeter of the budget.

Challenges

- Expanding the existing water supply system according to demand with limited fund.
- Difficult to maintain water quality upto customers tap due to old age pipeline network.
- Due to adverse effect of climate change water sources are decreasing.
- Restructuring organization structure according to Nepal Constitution 2072.
- To serve at the places where it is being requested to NWSC to provide its services is like a challenge.

20. Photos of NWSC's Activities



Photograph 1: Foundation stone laid with Honorable Finance Minister Bishnu Prasad Paudel of Dam for drinking water at Jhumsa River, Palpa



Photograph 2: Inauguration ceremony of Jhumsa Dam Construction, Palpa



Photograph 3: Online Payment Agreement of NWSC Revenue Collection



Photograph 4: Jointly inspecting construction of Dam at Jhumsa River, Palpa



Photograph 5: Jointly inspecting construction of overhead tank at Taulihawa



Photograph 6: Jointly Inspecting Treatment Plant, Pokhara



Photograph 7: Joint Inspection (NWSC, YEC, HAC, PM, NEA, NTC) at Pokhara



Photograph 8: Jointly Inspecting Treatment Plant (Slow Sand Filter) at Furanchaur-25, Pokhara



Photograph 9: Jointly Inspecting Colpatan Reservoir Foundation Work, Pokhara



Photograph 10: NWSC New Building, Head Office, Kathmandu



Photograph 11: Virtual Training Conducted for the staffs of NWSC



Photograph 12: 250mm DI Pipe Line Laying work From Srijana Chowk to Prithvi Chowk at Nepalganj branch



Photograph 13: 250mm DI Pipe Line Laying work From Srijana Chowk to Prithvi Chowk at Nepalganj branch



Photograph 14: Pipelaying work of Bhabardah pipeline at Lahan



Photograph 15: Pipelaying work of Bhabardah pipeline at Lahan



Photograph 16: Lahan Leakage



Photograph 17: Lahan Leakage



Head Office Building
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32nd Anniversary

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