Sl. No.	Item Code	Description	Qty.	Unit	Rate	Amount
1	2	2	3	4	5	6
11		Provision of inter connection & jointing in following pipe lines including their supply of specials & all materials, labour & T&P etc.				
		A-63 mm dia to 90 mm dia	4	Nos.	1200.00	8800.00
		B-90/110 mm dia to 110/140/160 mm dia	4	Nos.	4100.00	16400.00
		C-110 mm dia to 140 mm dia	2	Nos.	4100.00	8200.00
12		Provision of chlorine dozer installaion with their proper setup of liquied chlorine tank & supply of all material, labour, T & P etc. complete as per direction of engineer in charge.	1	Job	L.S.	25000.00
13		Provision of cleaning work of OHT (150 KL) with their vertical pipes & supply of all material, labour, T & P etc. complete as per direction of engineer in charge.	150.00	KL	98.00	14700.00
14		Internal seepage resluting treatment and repairing of ventilor ladder , mesh , ceiling of balcony and staircase of OHT with supply of all materiel, labour, T&P etc. complete as per direction of engineer in charge.	1.00	Job	45941.00	45941.00
15		Provision of various repairing & finising work are given below and completion of work in Direction of engineer in charge.				
		A-Construction & repairing of 1st class masonry brick work in (1:6) cement : local sand.	1.10	cum	5808.00	6388.80
		B- RCC repairing work in (1:1.5:3)	1.55	cum	9910.27	15360.92
		C-Repairing & plaster works in (1:6) Cement : local sand .	100.00	sqm	222.55	22255.00
		D-White washing by putty after old Paint scratching & painting work complirted by three coat of apex ultima.	325.00	sqm	123.34	40085.50
16		Provision of leakage repairing in exiuting following sizes of PVC pipe line including all materiel, labour, T & P etc. complete.				
		63 mm dia OD	10.00	No.	993.82	9938.20
		75 mm dia OD	11.00	No.	1215.81	13373.91
		90 mm dia OD	10.00	No.	1430.80	14308.00
		110 mm dia OD	15.00	No.	1772.51	26587.65
		140 mm dia OD	2.00	No.	2224.96	4449.92
		200 mm dia	0.00	No.		0.00
		Total			Total-C	271788.90
		G.Total				4795228.45

Assistant Engineer

(b)

RETROFITTING OF FAKARPUR FAREWAN WATER SUPPLY SCHEME

ESTIMATE OF DISTRIBUTION SYSTEM

Sl. No.	Item Code	Description	Qty.	Unit	Rate	Amount
1	2	2	3	4	5	6
1		Supply of following sizes of pipe including rail way freight and cartage up to store including all taxes etc. complete.				
		HDPE Pipes (PE-100,PN-6)				
		63 mm dia OD	1050.00	Per M	60.63	63661.50
		90 mm dia OD	825.00	Per M	123.00	101475.00
		110 mm dia OD	550.00	Per M	182.33	100281.50
		140 mm dia OD	450.00	Per M	301.51	135679.50
		200 mm dia OD	0.00	Per M	610.00	0.00
		Sub Total	2875.00			401097.50
2		Supply of specials for above HDPE pipes	5% of above HDPE item No. 1			20054.88
3		Carting,laying and jointing of the following sizes of pipe into the trenches including cost of all jointing material, labour,T & P and testing etc,complete.				
		HDPE Pipes (PE-100,PN-6)				
		63 mm dia OD	1050.00	Per M	23.57	24748.50
		90 mm dia OD	825.00	Per M	32.06	26449.50
		110 mm dia OD	550.00	Per M	39.58	21769.00
		140 mm dia OD	450.00	Per M	44.10	19845.00
		200 mm dia OD	0.00	Per M	48.50	0.00
4	2001	Excavation for pipeline work in ordinary soil (loan clay and sand) with lift upto 1.5 m and lead upto 50 m including filling back the excavated earth into the trenches with watering ramming and disposal of surplus. Earth within 50 m are as per direction of Engineer incharge.	1722.77	Per M^3	269.53	464336.85
5		Supply of following fittings including F.O.R. destination and taxes and insurance etc. complete . Sluice valves class I as per IS 1538 (1969) with working pressure10kg/cm^2				
		50 mm dia	3	Each	3000.00	9000.00
		80 mm dia	2	Each	6536.00	13072.00
		100 mm dia	2	Each	10680.00	21360.00
		125 mm dia	2	Each	14400.00	28800.00
		C.I. Single Ball Type Air Valve 25 mm	1	Each	3000.00	3000.00
		Fire Hydrant (sluice Valve type) as per I.S.369/1995	1	Each	11520.00	11520.00
		Scour Valve, 80 mm	1	Each	6000.00	6000.00
6		Carting of following fitting with specials to the site of work, lowering them into trenches, fixing in position and jointing them with pipe lines and testing etc. complete (including supply of jointing material) Wheel Valve working pressure 10 Kg/cm 2				
		50 mm dia	3	Each	846.11	2538.33
		80 mm dia	2	Each	846.11	1692.22
		100 mm dia	2	Each	1077.97	2155.94
		125 mm dia	2	Each	1172.39	2344.78
		C.I. Single Ball Type Air Valve 25 mm	1	Each	779.38	779.38
		Fire Hydrant (sluice Valve type) as per I.S.369/1995	1	Each	618.78	618.78
		Scour Valve, 80 mm	1	Each	978.73	978.73
7		Supply of all types of materials and construct following Chambers as per types design with supply of all labour, T&P etc. complete.				
		Sluice Valve Chamber (Surface box type)	5	Each	3500.00	17500.00
		Sluice Valve Chamber (Masonay Type)	4	Each	22000.00	88000.00
		Fire Hydrant Chamber	1	Each	14000.00	14000.00
		Air valve Chamber	1	Each	5900.00	5900.00
8		Dismantling of roads for laying of distribution lines including shorting out a stacking and disposal of unserviceable materials up to a distance of 50 m form centre of trenches and disposal of unserviceable materials (trenches of roads surface will not be measured towards excavation in trenches)				
		B.O.E. Road.	150.00	M^2	99.00	14850.00
		Interlocking Road	180.00	M^2	178.53	32135.40
		C.C Road	1375.00	M^2	401.45	551993.75
		Bitumen Road	15.00	M^2	233.96	3509.40
9		Reinstatement of roads for laying of distribution lines including shorting out a stacking and disposal of unserviceable materials up to a distance of 50 m form centre of trenches and disposal of unserviceable materials (trenches of roads surface will not be measured towards excavation in trenches)				
		B.O.E. Road.	150.00	M^2	344.96	51744.00
		Interlocking Road	180.00	M^2	841.40	151452.00
		C.C Road	1375.00	M^2	2051.00	2820125.00
		Bitumen Road	15.00	M^2	2030.00	30450.00
					Total -A	3053771.00
10		Provision for functional house hold tap connection with 15 mm dia GI (medium) pipe including supply of all material, labour, T & P etc. complete as per direction of engineer in charge.	415	Nos.	3541.37	1469668.55
					Total -B	1469668.55

(3)

Fakharpur Barewan water supply scheme Block-Umarda, District-Kannauj

JAL JEEVAN MISSION (2020-2021)
FROM - J (Comprehensive)

Sl. No.	Description of work	Amount (in Lacs)	%	Total Amount (Rs.in Lacs	Funding by U.P. Govt.	Funding by India Govt.
1	Cost of work	54.19		54.19		
2	Contingencies	54.19	2%	1.08		
	Sub total			55.27		
3	Deduct For Departmental Efficiency	55.27	5%	2.76		
	Total			**52.51**	**26.25**	**26.25**
4	Departmental Centage	52.51	12.50%	6.56	6.56	
	Grand Total			**59.07**	**32.82**	**26.25**

Checked **Prepared** **Recommended**

(Arvind Kumar) (D.S.Gupta) (Sunil Kumar)
Computer Assistant Engineer Executive Engineer
CONTRUCTION DIVISION , U.P. JAL NIGAM, KANNAUJ.

Approved

(Janardan Singh)
Construction Circle
U.P.Jal Nigam, Etawah

OFFICE OF THE EXECUTIVE ENGINEER, CONSTRUCTION DIVISION, U.P. JAL NIGAM, KANNAUJ.

RETROFITTING WORK OF WATER SUPPLY SCHEME
UNDER
JAL JEEVAN MISSION

REPORT

Retrofitting of Fakharpur Barewan water supply scheme in Block Umarda District .Kannauj has been prepared as per instruction of Managing Director, U.P. Jal Nigam Lucknow vide letter No. 145/2042-0020[JJM]/2019 dt.04/02/2020 verbal instruction given by Chief Engineer (Kanpur Zone), superintendent engineer Construction circle U.P. Jal Nigam Etawah to Provide functional house hold tap connection for everyhouse hold of Villages.

SOURCE OF WATER:-

Ground water is source of water. Tubewell having in all above village is already exist in schemes & are fully functional.

WATER WORKS:-

Tube well, O.H.T.& Pump House is situated in water works & fully functional which is sufficient to fulfil the demand after extension of pipe line 63 mm to 140 mm HDPE which is provided in the estimate & F.H.T.C. in the village are to be provide 415 Nos. for every house hold.

CONCLUSION:-

As per guide line of **JAL JEEVAN MISSION**this estimate for retrofitting of above for every house hold to provide potable wholesome water amounting Rs. 59.07 lacs is here by submitted for approval & allotment of funds.

(Er. Sunil Kumar)
Executive Engineer

OFFICE OF THE EXECUTIVE ENGINEER,
CONSTRUCTION DIVISION, U.P. JAL NIGAM,
KANNAUJ.

RETROFITTING & FHTC WORK OF

Fakharpur Barewan Rural Water Supply Scheme

Block-Umarda

District- Kannauj

UNDER

JAL JEEVAN MISSION

YEAR: 2020-21

Estimated Cost. Rs. 59.07 Lac.

Executive Engineer

Estimate No.

1 NETWORK DESIGN

LINE NO (1)	LENGTH IN M (2)	Sec. Popuin_for Pvt. Con (3)	Pub. SP (4)	Eq. Comm. Popln. (5)	DIA MM (6)	HWC (7)	FLOW KL/Hr (8)	VEL. M/Sec (9)	EQ. DIA (C=100) (10)	H L/ 1000 (11)	HEAD LOSS (12)	U/S NODE (13)	H. LEV (14)	R. LEV (15)	HEAD (16)	NODE (17)
													111.645	99.645	12.000	1FH
1	24.	0.	0.	3800.	148PV	145.	38.24	0.617	170.5	2.58	0.060	1	111.583	100.510	11.073	2
2	200.	90.	0.	790.	69PV	145.	7.95	0.591	79.5	5.79	1.155	2	110.426	100.490	9.936	3
3	72.	35.	0.	291.	58PV	145.	2.93	0.308	66.8	2.12	0.155	3	110.273	100.685	9.588	4
4	25.	10.	0.	136.	58PV	145.	1.37	0.144	66.8	0.52	0.015	4	110.260	100.685	9.575	5
5	8.	5.	0.	14.	58PV	145.	0.14	0.015	66.8	0.01	0.000	6	110.260	100.685	9.575	5
6	68.	30.	0.	127.	58PV	145.	1.28	0.135	66.8	0.46	0.030	7	110.260	100.685	9.575	6
7	31.	15.	0.	429.	58PV	145.	4.31	0.454	66.8	4.35	0.135	3	110.291	100.470	9.821	7
8	15.	5.	0.	93.	58PV	145.	0.94	0.099	66.8	0.26	0.005	6	110.256	100.680	9.576	8
9	62.	30.	0.	55.	58PV	145.	0.56	0.058	66.8	0.10	0.005	9	110.256	100.680	9.576	8
10	15.	5.	0.	277.	58PV	145.	2.78	0.293	66.8	1.93	0.030	7	110.262	100.475	9.787	9
11	10.	5.	0.	128.	58PV	145.	1.29	0.136	66.8	0.47	0.005	8	110.251	100.680	9.571	10MH
12	61.	30.	0.	1.	58PV	145.	0.01	0.001	66.8	0.00	0.000	10	110.251	100.475	9.776	11
13	10.	5.	0.	201.	58PV	145.	2.03	0.213	66.8	1.07	0.010	9	110.251	100.475	9.776	11
14	65.	30.	0.	95.	58PV	145.	0.96	0.101	66.8	0.27	0.020	10	110.234	100.510	9.724	12
15	48.	20.	0.	42.	58PV	145.	0.42	0.044	66.8	0.06	0.005	13	110.234	100.510	9.724	12
16	17.	10.	0.	179.	58PV	145.	1.80	0.190	66.8	0.87	0.015	11	110.237	100.465	9.772	13
17	27.	10.	0.	107.	58PV	145.	1.08	0.113	66.8	0.33	0.010	12	110.225	100.405	9.820	14
18	10.	5.	0.	80.	58PV	145.	0.81	0.085	66.8	0.20	0.000	14	110.223	100.405	9.818	15MH
19	46.	20.	0.	2.	58PV	145.	0.02	0.002	66.8	0.00	0.000	16	110.223	100.405	9.818	15MH
20	36.	15.	0.	115.	58PV	145.	1.16	0.122	66.8	0.38	0.015	13	110.223	100.390	9.833	16
21	70.	30.	0.	54.	58PV	145.	0.55	0.058	66.8	0.10	0.005	15	110.216	100.310	9.906	17
22	27.	10.	0.	91.	58PV	145.	0.92	0.096	66.8	0.25	0.005	16	110.216	100.310	9.906	17
23	33.	15.	0.	12.	58PV	145.	0.12	0.013	66.8	0.01	0.000	14	110.225	100.200	10.025	18
24	140.	65.	0.	67.	58PV	145.	0.67	0.071	66.8	0.14	0.020	18	110.205	100.380	9.825	19
25	27.	10.	0.	120.	58PV	145.	1.21	0.127	66.8	0.41	0.010	17	110.205	100.380	9.825	19
26	326.	150.	0.	75.	58PV	145.	0.75	0.079	66.8	0.17	0.055	19	110.149	102.890	7.259	20RN
27	106.	50.	0.	108.	58PV	145.	1.08	0.114	66.8	0.34	0.035	4	110.237	100.720	9.517	21MH
28	18.	10.	0.	29.	58PV	145.	0.29	0.030	66.8	0.03	0.000	21	110.237	100.690	9.547	22
29	35.	15.	0.	33.	58PV	145.	0.33	0.035	66.8	0.04	0.000	23	110.237	100.690	9.547	22
30	44.	20.	0.	133.	58PV	145.	1.33	0.140	66.8	0.49	0.020	5	110.238	100.665	9.573	23
31	56.	25.	0.	36.	58PV	145	0.36	0.038	66.8	0.04	0.005	21	110.235	100.705	9.530	24
32	38.	20.	0.	39.	58PV	145.	0.40	0.042	66.8	0.05	0.000	22	110.235	100.705	9.530	24

** Continuity and Connectivity may be checked thoroughly at the time of Scheme preparation and execution to ensure correctness.

AEE 26

AD

33	31.	15.	0.	46.	58PV 145.	0.46 0.046									
34	32.	15.	0.	74.	58PV 145.	0.75 0.079	66.8	0.17	0.005	23	110.233	100.710	9.523	25MH	
35	27.	10.	0.	100.	58PV 145.	1.01 0.106	66.8	0.29	0.010	25	110.225	100.200	10.025	18	
36	332.	155.	0.	2888.	148PV 145.	29.06 0.463	170.5	1.55	0.515	2	111.068	100.610	10.458	26	
37	320.	150.	0.	380.	58PV 145.	3.83 0.402	66.8	3.48	1.115	26	109.955	100.710	9.245	27	
38	261.	120.	0.	175.	58PV 145.	1.76 0.185	66.8	0.83	0.215	27	109.738	100.880	8.858	28	
39	70.	30.	0.	100.	58PV 145.	1.01 0.106	66.8	0.29	0.020	28	109.718	100.885	8.833	29	
40	62.	30.	0.	54.	58PV 145.	0.54 0.057	66.8	0.09	0.005	30	109.718	100.885	8.833	29	
41	65.	30.	0.	134.	58PV 145.	1.35 0.142	66.8	0.51	0.035	31	109.724	100.870	8.854	30	
42	35.	15.	0.	375.	58PV 145.	3.77 0.397	66.8	3.39	0.120	32	109.756	100.995	8.761	31MH	
43	74.	35.	0.	1008.	83PV 145.	10.15 0.521	95.6	3.70	0.275	33	109.875	100.920	8.955	32	
44	35.	15.	0.	1534.	83PV 145.	15.44 0.793	95.6	8.04	0.280	34	110.149	101.055	9.094	33	
45	82.	40.	0.	1582.	101PV 145.	15.92 0.552	116.3	3.27	0.270	35	110.430	101.035	9.395	34	
46	184.	85.	0.	2312.	129PV 145.	23.27 0.494	148.6	2.01	0.370	26	110.699	100.925	9.774	35	
47	111.	50.	0.	25.	58PV 145.	0.25 0.026	66.8	0.02	0.000	30	109.721	101.220	8.501	36RN	
48	54.	25.	0.	58.	58PV 145.	0.58 0.061	66.8	0.11	0.005	27	109.949	100.780	9.169	37	
49	37.	15.	0.	8.	58PV 145.	0.08 0.008	66.8	0.00	0.000	37	109.949	100.810	9.139	38RN	
50	38.	20.	0.	10.	58PV 145.	0.10 0.011	66.8	0.00	0.000	37	109.949	101.085	8.864	39RN	
51	27.	10.	0.	5.	58PV 145.	0.05 0.005	66.8	0.00	0.000	37	109.949	101.090	8.859	40RN	
52	30.	15.	0.	117.	58PV 145.	1.18 0.124	66.8	0.39	0.010	29	109.706	100.995	8.711	41	
53	40.	20.	0.	75.	58PV 145.	0.75 0.079	66.8	0.17	0.005	42	109.706	100.995	8.711	41	
54	38.	20.	0.	209.	58PV 145.	2.10 0.221	66.8	1.14	0.045	31	109.713	100.915	8.798	42	
55	30.	15.	0.	106.	58PV 145.	1.07 0.112	66.8	0.33	0.010	42	109.703	101.295	8.408	43MH	
56	26.	10.	0.	19.	58PV 145.	0.19 0.020	66.8	0.01	0.000	44	109.703	101.295	8.408	43MH	
57	21.	10.	0.	603.	58PV 145.	6.07 0.638	66.8	8.18	0.170	32	109.703	101.210	8.493	44	
58	24.	10.	0.	569.	58PV 145.	5.73 0.602	66.8	7.34	0.175	44	109.527	101.110	8.417	45	
59	119.	55.	0.	473.	58PV 145.	4.76 0.501	66.8	5.22	0.620	33	109.527	101.110	8.417	45	
60	61.	30.	0.	995.	101PV 145.	10.01 0.347	116.3	1.39	0.085	45	109.443	101.080	8.363	46	
61	185.	85.	0.	43.	58PV 145.	0.43 0.045	66.8	0.06	0.010	46	109.432	100.990	8.442	47RN	
62	45.	20.	0.	10.	58PV 145.	0.10 0.011	66.8	0.00	0.000	34	110.430	101.115	9.315	48RN	
63	38	20.	0	164.	58PV 145.	1.65 0.174	66.8	0.73	0.030	41	109.678	101.095	8.583	49	
64	108.	50.	0.	88.	58PV 145.	0.88 0.093	66.8	0.23	0.025	43	109.678	101.095	8.583	49	
65	703.	0.	0.	217.	58PV 145.	2.18 0.230	66.8	1.23	0.865	49	108.812	100.990	7.822	50	
66	44.	20.	0.	425.	58PV 145.	4.28 0.450	66.8	4.28	0.190	51	108.812	100.990	7.822	50	
67	501.	230.	0.	780.	101PV 145.	7.85 0.272	116.3	0.88	0.445	46	109.000	100.990	8.010	51	
68	52.	25.	0.	342.	58PV 145.	3.44 0.362	66.8	2.86	0.150	50	108.663	101.035	7.628	52	

ontinuity and Connectivity may be checked thoroughly at the time of Scheme preparation and execution to ensure correctness.

70	72.	35.	0.	116.	58PV 145.	1.16	0.122	66.8	0.38	0.030	53	108.607	101.115	7.492	54
71	182.	85.	0.	220.	58PV 145.	2.22	0.233	66.8	1.27	0.230	55	108.607	101.115	7.492	54
72	170.	80.	0.	190.	58PV 145.	1.91	0.201	66.8	0.96	0.165	51	108.837	101.115	7.722	55
73	93.	45.	0.	255.	58PV 145.	2.57	0.270	66.8	1.67	0.155	50	108.657	100.945	7.712	56
74	57.	25.	0.	150.	58PV 145.	1.51	0.159	66.8	0.63	0.035	56	108.621	100.985	7.636	57
75	73.	35.	0.	144.	58PV 145.	1.45	0.152	66.8	0.57	0.040	52	108.621	100.985	7.636	57
76	150.	70.	0.	35.	58PV 145.	0.35	0.037	66.8	0.04	0.005	56	108.650	100.905	7.745	58RN
77	349.	160.	0.	184.	58PV 145.	1.85	0.195	66.8	0.91	0.315	57	108.304	101.035	7.269	59
78	50.	25.	0.	32.	58PV 145.	0.32	0.034	66.8	0.03	0.000	59	108.302	101.090	7.212	60
79	49.	25	0.	45.	58PV 145.	0.45	0.048	66.8	0.07	0.005	61	108.302	101.090	7.212	60
80	11.	5.	0.	128.	58PV 145.	1.29	0.136	66.8	0.47	0.005	62	108.305	101.210	7.095	61MH
81	233.	110.	0.	221.	58PV 145.	2.22	0.234	66.8	1.27	0.295	54	108.310	101.205	7.105	62
82	37.	15.	0.	8.	58PV 145.	0.08	0.008	66.8	0.00	0.000	53	108.634	100.965	7.669	63RN
83	40.	20.	0.	10.	58PV 145.	0.10	0.011	66.8	0.00	0.000	62	108.310	101.190	7.120	64RN
84	32.	15.	0.	8.	58PV 145.	0.08	0.008	66.8	0.00	0.000	62	108.310	101.195	7.115	65RN
85	72.	35.	0.	34.	58PV 145.	0.34	0.036	66.8	0.04	0.005	60	108.[illegible]99	101.065	7.234	66
86	125.	60.	0.	38.	58PV 145.	0.38	0.040	66.8	0.05	0.005	61	108.299	101.065	7.234	66
87	50.	25.	0.	13.	58PV 145.	0.13	0.013	66.8	0.01	0.000	66	108.299	101.025	7.274	67RN
88	127.	60.	0.	30.	58PV 145.	0.30	0.032	66.8	0.03	0.005	59	108.300	100.865	7.435	68RN
89	163.	75.	0.	151.	58PV 145.	1.51	0.159	66.8	0.63	0.100	69	108.837	101.115	7.722	55
90	25.	10.	0.	193.	58PV 145.	1.94	0.204	66.8	0.99	0.025	70	108.939	101.320	7.619	69MH
91	57.	25.	0.	158.	58PV 145.	1.58	0.167	66.8	0.68	0.040	70	108.925	99.365	9.560	71
92	105.	50.	0.	25.	58PV 145.	0.25	0.026	66.8	0.02	0.000	71	108.923	99.290	9.633	72RN
93	37.	15.	0.	88.	58PV 145.	0.88	0.093	66.8	0.23	0.010	71	108.917	99.420	9.497	73
94	25.	10.	0.	5.	58PV 145.	0.05	0.005	66.8	0.00	0.000	73	108.916	99.385	9.531	74RN
95	41.	20.	0.	60.	58PV 145.	0.60	0.063	66.8	0.11	0.005	73	108.912	99.465	9.447	75
96	36.	15.	0.	8.	58PV 145.	0.08	0.008	66.8	0.00	0.000	75	108.912	99.595	9.317	76RN
97	71.	35.	0.	18.	58PV 145.	0.18	0.019	66.8	0.01	0.000	75	108.911	99.405	9.506	77RN
98	655.	300.	0.	518.	69PV 145.	5.21	0.387	79.5	2.65	1.735	35	108.964	99.350	9.614	70

** Continuity and Connectivity may be checked thoroughly at the time of Scheme preparation and execution to ensure correctness.

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2.CONCLUSIONS :

INPUT HEAD AT NODE 1 = 12.00M Fixed
NODE NO OF MIN TER HEAD = 61
MINIMUM TERMINAL HEAD = 7.095 M
MAXIMUM ERROR IN FLOW =0.00042 Kl/hr
MAX. DIFFERENCE IN RL-S = 3.600 M
TOTAL FLOW LENGTH = 8941. M
Eq.DesignPopulation @ 80.50 lpcd = 3800.
SL NO. OF FARTHEST NODE = 68
MINIMUM TRAVERSE LENGTH BETWEEN FEEDING NODE & FARTHEST NODE = 1983. M
AV HYD GRAD BET FEEDING NODE & FARTHEST NODE THRU MIN TRAVERSE= 1.69/1000
RATIO OF AVERAGE TO MAX.DEMAND DURING DESIGN PERIOD= 0.90 (Calc.)

NOTE :
E - Existing pipe line, EH- Economical Head, FH- Fixed Head
MH = NODE OF LOWEST TERMINAL HEAD AMONGST THE NEIGHBOURING NODES
RN = NODE oF LOWEST HYDRAULIC LEVEL AMONGST THE NEIGHBOURING NODES
DIRECTION OF FLOW IN LINE (COL 2) IS FROM U/S NODE (COL 1) TO D/S NODE (COL 17)
HEAD & LEVELS ARE IN METERS
I.D. of PVC Pipes have been assumed as given in Bill of Quantities, below
In case of more than one existing pipes along a line, Equivalent Dia. is taken

** Continuity and Connectivity may be checked thoroughly at the time of Scheme preparation and execution to ensure correctness.

3.DESIGN PARAMETERS & CONSTRAINTS GIVEN

DESIGN PERIOD OF PROJECT .. = 30.YEARS
TERMINAL HEAD AT FEEDING NODE NO. 1= 12.00 M
MIN.TERMINAL HEAD TO BE MAINTAINED = 7.00 M
MIN.DIA OF PIPE TO BE PROVIDED .. = 5.80 CM
Popln, S/RATE, P/FACTOR for Priv.Com= 3800. 80.50 LPCD, 3.00
Popln, S/RATE, P/FACTOR for Pub.S.P.= 0. 80.50 LPCD, 3.00
Popln, S/RATE FOR NODAL POPLN. .. = 0. 80.50 LPCD

4.AIR-VALVES & SCOUR-VALVES

POSITION OF SCOUR-VALVES ADJACENT TO FOLLOWING NODES MAY BE CONSIDERED
72 77

5.BILL OF QUANTITIES & COST ESTIMATE

PIPE			EXCAVATION			SUPPLY		LAYING		SPECIALS	
OD/ ID(cm)	TYPE	LENGTH	VOLUME	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT
6.30/ 5.80	PVC	6793.	4729.04	120.00	567485.13	61.00	414373.00	10.00	67930.00	0.05 X SUPPLY COST	20718.65
7.50/ 6.90	PVC	855.	611.46	120.00	73375.52	74.00	63270.00	11.50	9832.50	0.05 X SUPPLY COST	3163.50
9.00/ 8.30	PVC	109.	80.63	120.00	9675.13	106.00	11554.00	14.60	1591.40	0.05 X SUPPLY COST	577.70
11.00/10.10	PVC	644.	497.04	120.00	59644.78	144.00	92736.00	19.50	12558.00	0.05 X SUPPLY COST	4636.80
14.00/12.90	PVC	184.	151.44	120.00	18172.75	245.00	45080.00	26.30	4839.20	0.05 X SUPPLY COST	2254.00
16.00/14.80	PVC	356.	305.70	120.00	36683.84	325.00	115700.00	29.60	10537.60	0.05 X SUPPLY COST	5785.00
TOTAL =		8941.	6375.31		765037.06		742713.00		107288.70		37135.65

GRAND TOTAL (ROUNDED TO WHOLE RUPEE) : 1652174.

** Continuity and Connectivity may be checked thoroughly at the time of Scheme preparation and execution to ensure correctness.

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GSTIN: 09BHCPS2758D1Z7
PAN NO. : BHCPS2758D

Mobile Number: - 9412284270
E-Mail:- shishupals0111@gmail.com

M/S PROJECT INDIA.

Ref.

Date:18/10/2021

HYDRO TEST REPORT

DISTRICT-KANNAUJ

BLOCK-UMARDA

NAME OF SCHEME-FAKERPUR BAREWA

S.NO.	Materials of pipe	Dia of pipe	Location	Length	Applied test pressure on pipe(Kg./cm²)	Time in Hrs.		
						1	2	3
1.	H.D.P.E	63mm	Dhanna purva	128 mtr	8,7,6	3	2	7
2.	H.D.P.E	90mm	Main road-irshad	180 mtr	8,7,6	2	3	7
3.	H.D.P.E	90mm	Chhote-nirala	470 mtr	8,7,6	2	3	7
4.	H.D.P.E	63mm	Raju-ramesh	120 mtr	8,7,6	3	2	7
5.	H.D.P.E	63mm	Mahesh-rajkumar	103 mtr	8,7,6	3	2	7
6.	H.D.P.E	63mm	Mahesh-ramjeet	109 mtr	8,7,6	3	2	7
7.	H.D.P.E	110mm	Barewa-madaiyan	855 mtr	8,7,6	2	3	7

Remark

contractor

J.E

A.E

अधिशासी अभियंता खण्ड कार्यालय

उ0प्र0 जल निगम (ग्रामीण),
ग्वाल मैदान, कन्नौज (209725)

E-Mail ID
ee_cd_kannuaj@yahoo.com
eecdupjnkannauj@gmail.com

Inventory handover list

1	Name of Scheme	..Fakan.pur.bare.....W/S Scheme
3	Detail of works	1- OHT 2- Pump House 3- Boundary wall 4- Laying of pipe line (1.5 Km), etc work. 5 - Staff Quarter
4	Tube well	1 Nos (500 LPM)
8	Sluice valve	5 Nos

जूनियर इंजीनियर

सहायक अभियन्ता

Jal Jeevan Mission

Har Ghar Jal

District Level Water Analysis Laboratory , U.P Jal Nigam (Rural), Dist. Kannauj

Office of Executive Engineer, Construction division, U.P Jal Nigam, Mahatma Gandhi Road, Dwal Maidan, Kannauj. (Test Address only)

Test report

Sample ID: U1152717L409S7956587

User Information

Name:	Ankit Porwal	Mobile:	7351294870
Email:	ankitporwalankitporwa@gmail.com	Pin Code:	
Full Address:	Village- Not available , Gram Panchayat- Not available, Block- Not available, District- Kannauj, State- Uttar Pradesh		

Sample description

Source of Sample:	Source Type : Deep Tubewell, location : OHT Campus	Village:	FAKARPUR BAREWA
Gram Panchayat:	FAKERPUR BREWA	Block:	Umarda
District:	Kannauj	State:	Uttar Pradesh
Address:		Remarks:	As per Letter No. 916/011-Prayogshala/22 Dated 21.11.2022
Latitude:		Longitude:	

Date & time of sample collection	Date & time of sample received in lab	Date & time of sample analysed	Date & time of report generation
14.12.2022 | 11:00:00 AM	14.12.2022 | 04:50:00 PM	15.12.2022 | 01:30:00 PM	20.12.2022 | 04:50:45 PM

Test results

Sr. No.	Parameters tested	Unit of measurement	Requirement (acceptable limit) as per BIS 10500	Permissible limit (in absence of alternate source) as per BIS 10500	Test result value	Remarks
1	E. coli	CFU/100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	
2	Free residual Chlorine	mg/l	0.2	1	0.500	
3	pH	NA	6.5-8.5	No Relaxation	7.800	
4	TDS	mg/l	500	2000	797.000	

Sr. No.	Parameters tested	Unit of measurement	Requirement (acceptable limit) as per BIS 10500	Permissible limit (in absence of alternate source) as per BIS 10500	Test result value	Remarks
5	Total coliform	CFU/ 100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	
6	Turbidity	NTU	1	5	0.880	

Note:

1)*indicates parameters that are NABL accredited.

2)This test results related to the sample tested above

3)The report shall not to be reproduced in full without approval of authority

4)This is the end of the report

Authorised signatory

Mo Amjad Khan (Test Lab Incharge)

Jal Jeevan Mission aims at potable tap water supply to every home

Let's join hands to ensure drinking water is potable. It helps in preventing water borne diseases and improve public health.

Print

Date 11/ 2/ 23

W/S PROJECT FLOW DIAGRAM

(for Ground water supply system UNDER Jal Jeevan Mission project)

Name of the Scheme: Fakenpur Bakwa W/A Scheme
Cost (Lac): 59.02
Name of the project manager: Sarvesh Kumar
Contact: 7300554622

1 — PRODUCTION LEVEL → 2 — RESERVOIR LEVEL → 3 — DISTRIBUTION LEVEL

Tube well

- Capacity(HP)- 12.50
- Discharge(LPM)- 500
- Outlet dia (mm)- 100
- Name of the manufacturer-
- Running hour/per day (Hr.)- 6.00

Over Head Tank/ESR/GSR

- Capacity (Kl)- 150
- Staging height (M)- 12
- Outlet dia (mm)- 150
- Inlet dia (mm)- 160

Name of the feeding village	Total HH	Total FHTC	Total Length of pipe line (m)
Bakwa	150	156	2.600
Dakna Buzurg	132	14	2.700
Barhi	19	19	1.800
Mahkariya	38	13	1.800
Fakenpur	764	97	2.200
TOTAL	454	456	10700

Name:
Signature (with seal): [illegible signature and stamp]

अधिशासी अभियंता खण्ड कार्यालय

उ0प्र0 जल निगम (ग्रामीण),
ग्वाल मैदान, कन्नौज (209725)

पत्रांक- / / दिनांक- 10/2/23

Testing & Commissioning Certificate

प्रमाणित किया जाता है कि मैसर्स [illegible] इंडिया अनुबन्ध संख्या 56/EE/20-21 पता C-26 [illegible], [illegible] द्वारा जनपद कन्नौज विकास खण्ड उमर्दा के ग्राम पंचायत [illegible] ग्राम [illegible] की जल जीवन मिशन के अंतर्गत पूर्ण की गई ग्रामीण पेयजल योजना (परियोजना का नाम [illegible]) के समस्त कार्यों की कार्य पूर्ण की तिथि दिनांक 15/12/21 है एवं योजना के अंतर्गत अधिष्ठापित किये गये समस्त अवयव (डी.पी.आर. के अनुसार) के Testing & Commissioning का कार्य दिनांक 18/11/21 से दिनांक 8/12/21 तक पूर्ण कर लिया गया है, जो संतोषजनक है एवं उक्त गाँव में स्थापित सभी एफ.एच.टी.सी. में जलापूर्ति सुचारू रूप से की जा रही है एवं जलापूर्ति हेतु निर्धारित निम्नलिखित तीन शर्तों का भी अनुपालन किया जा रहा है :-

1. प्रत्येक व्यक्ति को न्यूनतम 55 एल.पी.सी.डी. पानी की आपूर्ति।
2. उपभोक्ता तक पर्याप्त जल दबाव एवं समयानुसार जलापूर्ति।
3. स्वच्छ पेयजल आपूर्ति।

जूनियर इंजीनियर

सहायक अभियन्ता

अधिशासी अभियन्ता

अधिशासी अभियंता खण्ड कार्यालय

उ0प्र0 जल निगम (ग्रामीण)

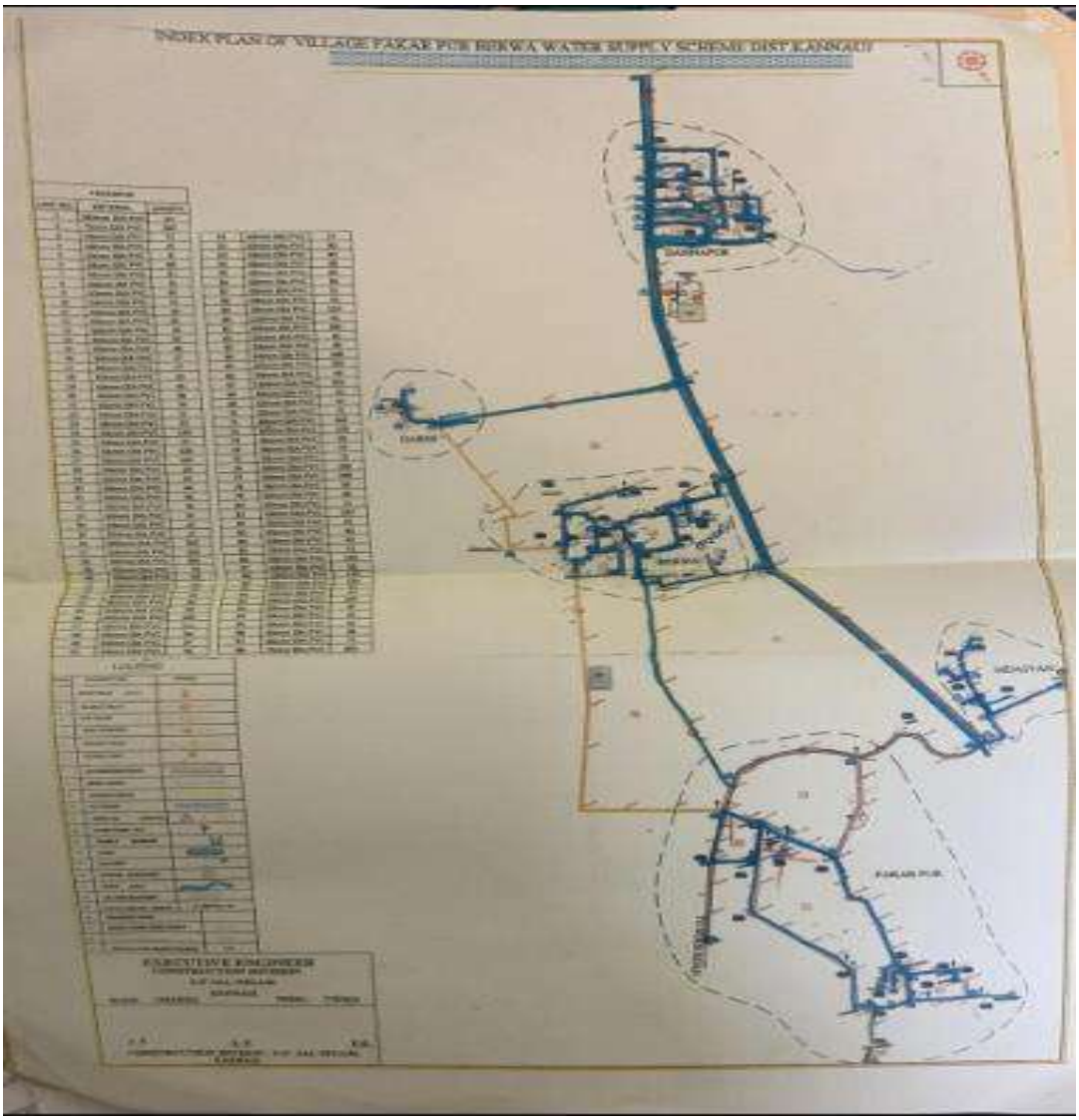
पाल मैदान, कन्नौज (209725)

पत्रांक:- / / दिनांक:- 10/2/21

Trial & Run Certificate

प्रमाणित किया जाता है कि मैसर्स [illegible] इंडिया अनुबन्ध संख्या 56/EE/20-21 पता [illegible] द्वारा जनपद कन्नौज विकास खण्ड उमर्दा की ग्राम पंचायत फकरपुर बेरा ग्राम फकरपुर बेरा की जल जीवन मिशन के अंतर्गत पूर्ण की गई ग्रामीण पेयजल योजना (परियोजना का नाम फकरपुर बेरा) के समस्त कार्यों की "कार्य पूर्ण की तिथि" दिनांक 15/1/21 है एवं योजना के Trial & Run का कार्य दिनांक 16/1/21 से दिनांक 15/3/21 तक पूर्ण कर लिया गया है, जो संतोषजनक है।

जूनियर इंजीनियर	सहायक अभियन्ता	अधिशासी अभियन्ता


INDEX PLAN OF VILLAGE PAKAE FOR BIRWA WATER SUPPLY SCHEME DIST KANNAUJ
PAKAE PUR
EXECUTIVE ENGINEER

खण्ड कार्यालय
अधिशासी अभियंता ,
उ0प्र0 जल निगम,(ग्रामीण)
ग्वाल मैदान, कन्नौज (209725)

E-Mail ID
ee_cd_kannauj@yahoo.com
eecdupjalkannauj@gmail.com

पत्रांकः– / / दिनांकः–

सेवा मे,
जिला पंचायत राज अधिकारी
कन्नौज।

विषयः– जनपद कन्नौज की "हर घर जल" से आच्छादित ग्रामीण पेयजल योजनाओ के हस्तान्तरण के सम्बन्ध मे।

महोदय,

उपरोक्त विषयक अवगत कराना है कि विभिन्न विकास खण्डो मे स्थापित योजनाओ के कार्य खण्ड द्वारा पूर्ण कराकर उक्त योजनाओ को "हर घर जल" से आच्छादित किया जा चुका है। अपर मुख्य सचिव उ0प्र0 शासन के पत्रांक संख्या 1896/33-3-2022-1028/2022 टीसी दिनांक 11 नवम्बर 2022 द्वारा निर्धारित एस0ओ0पी0 के अनुसार योजनाओ के हैण्डिग ओवर/टेकिन ओवर की कार्यवाही की जानी है।

अतः आपसे अनुरोध है कि संलग्न सूची के अनुसार योजनाओ का हस्तान्तरण लेने का कष्ट करे।

संलग्नक–उपरोक्तानुसार ।

भवदीय

(सुरेन्द्र कुमार)
अधिशासी अभियन्ता

पृ0सं0 11 / M-2/11 दिनांक 3.1.23

प्रतिलिपि– निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

1–जिलाधिकारी महोदय, कन्नौज।
2–मुख्य विकास अधिकारी, महोदय कन्नौज।
3–अधीक्षण अभियन्ता मण्डल कार्यालय उ0प्र0 जल निगम ग्रामीण कानपुर।
4–श्री सर्वेश कुमार सहायक अभियन्ता को इस निर्देश के साथ कि "हर घर जल " से आच्छादित योजनाओ को निर्धारित एस0ओ0पी0 के अनुसार पोर्टल पर अपलोड कराना सुनिश्चित करे।
5–श्री अभिषेक कुमार मौर्य/श्री आशीष गुप्ता/श्री सुशान्त वर्मा जूनियर इंजीनियर।

अधिशासी अभियन्ता

"हर घर जल" से आच्छादित ग्राम पचायतो का विवरण।

क्र0	विकास खण्ड का नाम	ग्राम पंचायत का नाम	राजस्व ग्राम का नाम
1	जलालाबाद	गौरियापुर	गौरियापुर
2	तालग्राम	महोना	महोना
3	तालग्राम	समगुरा बहादुरपुर	समगुरा बहादुरपुर
4	तालग्राम	रजलामउ	रजलामउ
5	तालग्राम	गंगागंज गुरौली	गंगागंज गुरौली
6	तालग्राम	तमियामउ	तमियामउ
7	उमर्दा	पटटी कडेरा	पटटी
8	उमर्दा	पटटी कडेरा	कडेरा
9	तालग्राम	असौलिया	असौलिया
10	तालग्राम	लालपुर	काजीपुरवा
11	तालग्राम	लालपुर	लालपुर
12	तालग्राम	नेकनामपुर	नेकनामपुर
13	तालग्राम	नेकनामपुर	गोविन्दपुर
14	हसेरन	कलसान	कलसान
15	तालग्राम	अनीभोज	अनीभोज
16	तालग्राम	अनीभोज	मीरपुर
17	कन्नौज	देवधरापुर	देवधरापुर
18	उमर्दा	रुरा	रुरा
19	उमर्दा	पुर्वा महते	पुर्वा महते
20	उमर्दा	फतेहपुर कपूरापुर	फतेहपुर कपूरापुर
21	कन्नौज	सहजापुर	सहजापुर
22	तालग्राम	बरई	बरई
23	तालग्राम	बरई	तिलकसराय
24	गुगरापुर	मांछा	मांछा
25	कन्नौज	चौराचौंदपुर	चौराचौंदपुर
26	उमर्दा	फकरपुर बरेवा	फकरपुर बरेवा
27	उमर्दा	जनखत	जनखत
28	कन्नौज	सकरीखुर्द	सकरीखुर्द
29	कन्नौज	सारोतोप	सारोतोप
30	उमर्दा	आलमपुर	आलमपुर
31	तालग्राम	भुडहा	भुडहा
32	तालग्राम	रौरा	रौरा
33	उमर्दा	अज्यौरा	अज्यौरा
34	उमर्दा	सिंहपुर	सिंहपुर
35	जलालाबाद	तिलपई डिगसरा	तिलपई डिगसरा