

ATAL BHUJAL YOJANA (Atal Jal)

State: Maharashtra

Department: Groundwater Surveys and Development Agency.

HYDROGEOLOGICAL REPORT

BLOCK : Latur

DISTRICT : Latur

YEAR :2020

*Towards partial fulfillment of requirements for Disbursement of
Incentive under DLI -1*

DATE OF DISCLOSURE:...25../11.../...2020...../

HYDROGEOLOGICAL REPORT

(YEAR: 2019-20)

STATE	:	Maharashtra
DISTRICT	:	Latur
BLOCK/TALUK	:	Latur
BLOCK/TALUK HQs	:	Latur

A GENERAL INFORMATION							
1.	Geographical area (Ha) : 144359						
2.	No. of Gram Panchayats : 110						
3.	No. of towns : 02						
4.	No. of villages : 121						
5.	Population (2011) : <table border="1" style="margin-left: 20px;"> <tr> <th>Male</th> <th>Female</th> <th>Total</th> </tr> <tr> <td>355784</td> <td>327882</td> <td>683666</td> </tr> </table>	Male	Female	Total	355784	327882	683666
Male	Female	Total					
355784	327882	683666					
6.	Rainfall (mm) : <table border="1" style="margin-left: 20px;"> <tr> <th>Monsoon</th> <th>Non-monsoon</th> <th>Annual</th> </tr> <tr> <td>636.40</td> <td>32.40</td> <td>668.80</td> </tr> </table>	Monsoon	Non-monsoon	Annual	636.40	32.40	668.80
Monsoon	Non-monsoon	Annual					
636.40	32.40	668.80					
7.	River basin : Godavari						
8.	Major soil types : Black Cotton Soil,						

B LAND USE	
1.	Forest area (Ha) : 600.52
2.	Cultivable area (Ha) : 114687.20
3.	Net sown area (Ha) : 80281.04
4.	Gross cropped area (Ha) : 94687.20

C CROPPING PATTERN (As in 2019-20)					
1.	Major crops grown	Kharif	Rabi	Summer	Perennial
		Jawar	Jawar	Groundnut	Sugarcane
		Pulses	Wheat	-	Grapes
		Vegetables	Gram	-	
		Soyabean	Maize	-	
		Safflower	Bajara	-	

D IRRIGATION FACILITIES (As in 2019-20)											
1.	Net irrigated area (Ha) : 20070.26										
2.	Gross irrigated area (Ha) : 33718.04										
3.	Area under irrigation (Ha) (Source- wise) : <table border="1" style="margin-left: 20px;"> <tr> <th>DW</th> <th>BW/TW</th> <th>Tanks/Ponds</th> <th>Canals</th> <th>Others</th> </tr> <tr> <td>32928</td> <td>790</td> <td>---</td> <td>0</td> <td></td> </tr> </table>	DW	BW/TW	Tanks/Ponds	Canals	Others	32928	790	---	0	
DW	BW/TW	Tanks/Ponds	Canals	Others							
32928	790	---	0								

E GEOLOGY & HYDROGEOLOGY	
1.	Predominant rock type : Hard rock
2.	Major geological formations : Basalt
3.	Important water-bearing formations : Amygdaloidal Basalt & Jointed Basalt
4.	Status of coverage under NAQUIM : Not Covered.

F GROUND WATER CONDITIONS								
1.	No. of wells used for Water Level (WL) monitoring.	:	Open wells			BW/TW/ PZ		
			CGWB	SGWD	Total	CGWB	SGWD	Total
			06	18	24	0	0	0
2.	Monitoring mechanism (Nos.)	:	Manual		DWLR		Telemetry	
			CGWB	SGWD	CGWB	SGWD	CGWB	SGWD
			0	18	--	--	--	--
3.	Monitoring frequency	:	Agency	No. of times monitored/year				
			CGWB	04				
			SGWD	04				
4.	Period of water level data availability.	:	Agency	Period of WL data availability (From - To)				
				From (year)		To (year)		
			CGWB	2015		2019		
			SGWD	2015		2019		
5.	Water level range (m.bgl)	:	Minimum/Village		Maximum/Village			
	Pre-monsoon (April-May 2020)		5 / Nandgaon		19.5 / Jawala Bk			
	Post-monsoon (November 2020)		3.5 / Babhalgaon		9 / Gategaon			
6.	Seasonal WL fluctuation range (m)	:	Minimum/ Village		Maximum/ Village			
			1.85/Bhuisamudraga		10.5/Jawala Bk			

G GROUND WATER QUALITY								
1.	No. of wells used for Water Quality (WQ) monitoring.		Open Wells			BW/TW/ PZ		
			CGWB	SGWD	Total	CGWB	SGWD	Total
			6	18	24	0	0	0
2.	Monitoring frequency		Agency	No. of times monitored/year				
			CGWB	--				
			SGWD	2 Times (Pre & Post Monsoon)				
3.	Period of water quality data availability		Agency	Period of WQ data availability (Years)				
			CGWB	2015-19				
			SGWD	2015-19				
4.	Parameters analysed		Agency	Parameters Analysed				
			CGWB	Temperature, pH, EC, TDS, Total Hardness, Alkalinity, Calcium, Chloride, Nitrate, Sulphate, Fluoride, Iron.				
			SGWD	Temperature, pH, EC, TDS, Total Hardness, Alkalinity, Calcium, Chloride, Nitrate, Sulphate, Fluoride, Iron.				
5.	Known ground water quality issues, if any		Groundwater having Excess Nitrate					

H. GROUND WATER RESOURCES						
1.	Latest assessment year		2017			
2.	Assessment Unit		Taluka//Watershed			
3.	Annual extractable GW resource (Ham)		9709			
4.	Current annual GW extraction (Ham)		7120.17			
5.	Net GW availability for future use (Ham)		2206.20			
6.	Stage of GW extraction (%)		73.34			
7.	Category of block/taluka/(2017)		Semi Critical			
8.	Category of block/taluka/ in previous assessments		2013	2011	2009	2004
			Semi Critical	Semi Critical	Semi Critical	Semi Critical

I WATER-RELATED SCHEMES	
1.	Schemes with a bearing on ground water, being implemented in the block /Taluka.
	Centrally Sponsored /Central Sector Schemes
	i) PMKSY
	ii) Atal Solar Schemes
	iii) MGNREGA
	State Schemes
	i) Project on Climate Resilient on Agriculture (PoCRA)
	ii) CM-Solar scheme
	iii) Dr. Babasaheb Ambedkar Krushi Yojana
	iv) Ahilyadevi Holkar Scheme
	v) Farm pond on demand
J GROUND WATER RELATED ISSUES	
1.	Ground water related issues of the block/
i) Issues related to GW availability	: Watershed No.MR16, MR 24, MR 26 comes under semi critical category which encompasses 51 villages where Seasonal water availability of water in irrigation wells.
ii) Issues related to GW quality	: Groundwater having Excess Nitrate
iii) Other issues if any.	: Due to availability of sugar mills maximum area brought under sugarcane irrespective of availability of water. Maximum irrigation looks sustainable due to borewells yield.

TABLE-01													
BASIC DATA OF WATER LEVEL (WL)/WATER QUALITY (WQ) WELLS LOCATIONS													
STATE-MAHARASHTRA, DISTRICT- LATUR, TALUKA- LATUR													
Sl. No	Well No.	Village Name	Long.	Lat.	Type of well (DW/BW/TW/PZ)	Reduced Level (m.amsl)	Aquifer tapped	Height of measuring point (m.agl)	Depth (m.bgl)	Diameter (m)	Purpose of monitoring (WL/ WQ / WL & WQ)	Monitoring mechanism (Manual/ DWLR/ Telemetry)	Agency
1	W182235076374501	Babalgoan	76.6383000	18.3728000	DW		JB	0.76	19.7	2.5	WL	Manual	SGWD
2	W182725076421301	Bhadi	76.7024000	18.4549000	DW		JB	1	18	8.7	WL	Manual	SGWD
3	W182552076401001	Bhatkheda	76.6591000	18.4363000	DW		JB	0.6	18.65	2	WL	Manual	SGWD
4	W182643076280701	Bhuisamudraga	76.4664530	18.4441260	DW		JB	0.2	8.7	1.5	WL	Manual	SGWD
5	W182430076190701	Borgaon bk	76.3249000	18.4179000	DW		JB	0.99	10.2	1.2	WL	Manual	SGWD
6	W183100076194301	Gadwad	76.3276840	18.5181000	DW		JB	0.3	12.8	3.8	WL	Manual	SGWD
7	W182020076305101	Gangapur	76.5199000	18.3394000	DW		JB	1.04	9.7	1.2	WL	Manual	SGWD
8	W182537076241501	Gategoan	76.4028970	18.4277270	DW		JB	0.76	13	3	WL	Manual	SGWD
9	W182414076141501	Gumphawadi Murud bk	76.2679530	18.3761470	DW		JB	0.4	10	1.6	WL	Manual	SGWD
10	W182452076300001	Harangul bk	76.4966030	18.4061590	DW		VB	0.5	10	3	WL	Manual	SGWD
11	W183005076233201	Jawala bk	76.3914000	18.5003000	DW		JB	1.5	8.3	4	WL	Manual	SGWD
12	W183042076271001	Karsa	76.4531000	18.5164000	DW		JB	0	8.5	2.5	WL	Manual	SGWD
13	W182530076415301	Mamdapur	76.6990000	18.4241000	DW		JB	1	15	1.4	WL	Manual	SGWD
14	W182700076324501	Nandgaon	76.5458333	18.4500000	DW		JB	0.8	7.7	2	WL	Manual	SGWD
15	W182145076183301	Neoli	76.3179000	18.3692000	DW		JB	0.76	14.6	2.2	WL	Manual	SGWD
16	W182007076311501	Pakharsangvi	76.5206930	18.3850770	DW		JB	0.8	13.4	3.2	WL	Manual	SGWD
17	W182920076280701	Takli	76.4681000	18.4894000	DW		JB	0.6	12.7	1.7	WL	Manual	SGWD
18	W183235076215001	Wanjarkheda	76.3655930	18.5512720	DW		JB	0.6	9	3	WL	Manual	SGWD

Note –Type of well – DW (Dug Well), BW (Bore Well – hard rock), TW (Tube well – soft rock), PZ (piezometer)

TABLE-01-Continued													
Sl. No	Well No.	Village Name	Long.	Lat.	Type of well (DW/BW/TW/PZ)	Reduced Level (m.amsl)	Aquifer tapped	Height of measuring point (m.agl)	Depth (m.bgl)	Diameter (m)	Purpose of monitoring (WL / WQ / WL & WQ)	Monitoring mechanism (Manual/ DWLR/Telemetry)	Agency
1	W182356076323801	Latur Ring Road	76.543889	18.398889	Dug Well	576			16				CGWB
2	W182400076140001	Murud	76.233333	18.4	Dug Well	669			11				CGWB
3	W182400076240001	Murud-Akola	76.4	18.4	Dug Well	640			19				CGWB
4	W182426076343501	Latur Shani mandir	76.576389	18.407222	Dug Well	576			18				CGWB
5	W182430076185001	Borgaon Kale	76.313889	18.408333	Dug Well	656			17				CGWB
6	W182858076353001	Mahapur - Vasantnagar tanda	76.591667	18.482778	Dug Well	605			14				CGWB

Note: Type of well: **DW** (Dug well); **BW** (Bore well - hard rock); **TW** (Tube well - soft rock); **PZ** (Piezometer)

TABLE-02

WATER LEVEL (WL) DATA OF MONITORING WELLS-SGWD													
STATE-MAHARASHTRA, DISTRICT-LATUR, TALUKA- LATUR													
Sr.No.	Well ID	Well Type	Village	May-15	Oct-15	May-16	Oct-16	May-17	Oct-17	May-18	Oct-18	May-19	Oct-19
1	W182235076374501	DW	Babalgoan	18.6	4.6	19.7	1.6	14.2	1.6	9.7	6.0	15.7	3.2
2	W182725076421301	DW	Bhadi	11.3	11.3	11.3	1.3	11.3	0.9	11.2	7.3	11.3	6.9
3	W182552076401001	DW	Bhatkheda	14.2	6.5	18.7	4.9	7.4	10.3	18.6	6.2	17.1	8.5
4	W182643076280701	DW	Bhuisamudraga	8.7	6.4	16.7	4.9	7.3	3.2	8.7	3.7	8.7	7.0
5	W182430076190701	DW	Borgaon bk	15.4	7.5	16.3	5.0	10.1	3.1	9.8	7.6	10.2	6.1
6	W183100076194301	DW	Gadwad	12.2	8.7	12.8	4.4	10.2	2.6	7.8	7.5	12.8	6.0
7	W182020076305101	DW	Gangapur	9.7	7.7	11.5	3.9	8.9	4.8	9.3	9.8	9.2	4.3
8	W182537076241501	DW	Gategoan	13.0	13.0	13.8	5.9		3.3	9.8	12.5	13.0	9.0
9	W182414076141501	DW	Gumphawadi Murud	11.2	1.2	21.0	0.4	4.2	0.9	21.0	4.7	17.0	7.2
10	W182452076300001	DW	Harangul bk	10.0	4.4	10.0	3.4	6.1	0.5	5.7	6.4	10.0	5.4
11	W183005076233201	DW	Jawala bk	13.4	7.3	19.8	4.6	8.9	1.5	19.5	7.9	19.5	6.1
12	W183042076271001	DW	Karsa	8.5	8.5	8.7	4.7	8.5	2.4	7.8	8.0	8.5	5.2
13	W182530076415301	DW	Mamdapur	11.0	5.6	11.1	4.0	11.1	2.7	11.1	6.6	11.5	7.3
14	W182700076324501	DW	Nandgaon	9.0	9.1	12.0	4.7	7.8	2.8	9.0	9.3	5.0	5.0
15	W182145076183301	DW	Neoli	12.7	1.9	14.6	0.6	4.2	1.1	3.0	5.7	14.6	6.8
16	W182007076311501	DW	Pakharsangvi	13.2	13.5	13.5	7.6	11.1	2.7	11.6	7.8	13.5	6.5
17	W182920076280701	DW	Takli	12.7	10.1	13.5	4.9	9.8	2.6	7.1	6.5	11.8	7.0
18	W183235076215001	DW	Wanjarkheda	9.0	3.6	9.5	2.5	6.0	2.7	1.7	6.6	9.0	6.2

TABLE-02-Continued

WATER LEVEL (WL) DATA OF MONITORING WELLS-CGWB													
STATE-MAHARASHTRA, DISTRICT- LATUR, TALUKA- LATUR													
Sr.No.	Well ID	Well Type	Village	May-15	Nov-15	May-16	Nov-16	May-17	Nov-17	May-18	Nov-18	May-19	Nov-19
1	W182356076323801	Dug Well	Latur Ring Road	13.8	8.0	15.0	1.0	15.4	1.0	10.3	7.2	16.0	3.1
2	W182400076140001	Dug Well	Murud	8.8	3.2	10.4	0.7	8.1	1.0	4.6	9.2	7.4	0.8
3	W182400076240001	Dug Well	Murud-Akola	14.7	15.1	17.5	7.8	14.7	6.9	9.1	14.0	19.0	8.8
4	W182426076343501	Dug Well	Latur Shani mandir	2.5	13.5	15.0	3.1	11.3	3.5	16.3	17.6	16.0	3.8
5	W182430076185001	Dug Well	Borgaon Kale	14.6	9.7	15.4	6.4	11.0	6.2	9.9	12.2	17.0	5.2
6	W182858076353001	Dug Well	Vasantnagar tanda	12.5	12.4	13.7	3.7	10.9	5.6	9.0	10.8	12.3	8.2

TABLE-03-

WATER QUALITY (WQ) DATA OF MONITORING STATIONS-SGWD

STATE-MAHARASHTRA, DISTRICT-LATUR, TALUKA- LATUR

Sr. No.	Name of Village	Type of Source	Year	Sample Testing Date	Temp	pH	EC	TDS (mg/ L)	Alkalinity (mg/ L)	Chloride (mg/ L)	Fluoride (mg/ L)	Nitrate (mg/ L)	Sulphate (mg/ L)	Total Hardness (mg/ L)	Iron (mg/ L)	Ca (mg/ L)	Mg (mg/ L)	Remark
1	BORGAON BK.	Bore Well	2017-18	03.02.2018	24.9	7.9	1580	1027	160	155	0.725	44.451	14.506	430	0.024	100	NA	FIT
3	BORGAON BK.	Bore Well	2018-19	43439	26.4	7.4	1649.23	1072	290	135	0.75	44.68	6.19	430	0.22	60	NA	FIT
5	NANDGAON	Bore Well	2015-16	03.11.2015	24.5	7.3	812.308	528	110	120	BDL	42.17	NA	270	0.09	NA	NA	FIT
8	NANDGAON	Bore Well	2016-17	05.12.2016	27	6.9	812.308	528	120	150	0.51	7.62	NA	150	BDL	NA	NA	FIT
9	NANDGAON	Hand Pump	2017-18	43345	27	8	1489.23	968	280	305	0.33	27.99	128.42	350	0.1	115	NA	FIT
11	NANDGAON	Bore Well	2018-19	43242	24.9	7.3	784.615	510	120	115	1.13	11.593	13.122	120	0.114	110	NA	FIT
12	NANDGAON	Dug Well	2018-19	43242	25.1	7.4	812.308	528	90	85	1.046	3.81	24.128	150	0.219	90	NA	FIT
13	NANDGAON	Bore Well	2019-20	43782	26.9	7.4	858.462	558	110	85	0.33	16.51	38.84	100	0.58	80	0	FIT
14	NANDGAON	Dug Well	2019-20	43782	24.8	7.5	2695.38	1752	630	235	0.73	43.07	96.34	640	0.21	70	0	UNFIT
15	BABHALGAON	Hand Pump	2015-16	22.10.2015	27	7	3923.08	2550	90	1605	0.165	44.433	NA	1100	0.165	NA	NA	UNFIT
16	BABHALGAON	Dug Well	2017-18	29-03-2018	27	8.1	1740	1131	300	450	0.75	48.81	129.45	590	0.12	160	NA	UNFIT
17	BABHALGAON	Hand Pump	2017-18	29-03-2018	27	8.2	2635.38	1713	290	610	1.3	5.936	175.18	630	0.18	75	NA	UNFIT
18	BHADI	Bore Well	2016-17	06.09.2016	27	7.2	1092.31	710	190	310	0.982	4.21	NA	160	0.06	NA	NA	FIT
19	BHADI	Dug Well	2016-17	30.03.2017	29	7.2	1430.77	930	220	290	0.367	45.828	NA	290	0.181	NA	NA	UNFIT
20	BHADI	Hand Pump	2017-18	42826	27	7.2	1630.77	1060	330	360	0.293	49.696	17.317	310	0.126	160	NA	UNFIT
21	BHADI	Hand Pump	2018-19	43321	24	7.8	598.462	389	290	150	0.49	39.73	20.8	300	0.18	130	NA	FIT
22	BHATKHEDA	Hand Pump	2017-18	42777	27	8.2	55.3846	36	50	130	0.09	1.18	6.88	260	0.29	150	NA	FIT
23	BHATKHEDA	Dug Well	2017-18	42828	27	7.7	1553.85	1010	280	300	0.461	29.982	45.393	340	0.339	100	NA	FIT
24	BHATKHEDA	Bore Well	2018-19	43206	25.3	7.2	1707.69	1110	400	435	0.75	27.86	67.91	560	0.15	130	NA	FIT
25	BHUISAMUDRAGA	Bore Well	2016-17	06.09.2016	27	7.1	953.846	620	300	200	0.961	5.82	NA	210	0.147	NA	NA	FIT
26	BHUISAMUDRAGA	Dug Well	2017-18	42925	27	8.4	676.923	440	160	130	0.284	40.533	26.056	560	0.177	100	NA	FIT
27	BHUISAMUDRAGA	Bore Well	2017-18	42925	27	8.1	698.462	454	160	110	0.095	33.652	39.56	525	0.188	150	NA	FIT
28	BORGAON BK.	Hand Pump	2016-17	20.03.2017	27	7.2	1646.15	1070	330	310	0.284	38.435	NA	370	0.132	NA	NA	FIT
29	BORGAON BK.	Dug Well	2016-17	06.09.2016	24.5	6.9	1246.15	810	190	190	0.376	5.155	NA	350	BDL	NA	NA	FIT
30	BORGAON BK.	Bore Well	2017-18	16-10-2017	27	7.4	1510.77	982	310	310	0.42	11.18	51.26	465	0.195	205	NA	UNFIT
31	BORGAON BK.	Bore Well	2018-19	43196	24.9	7.6	1853.85	1205	450	600	0.73	35.65	135.25	550	0.13	130	NA	FIT
32	BORGAON BK.	Dug Well	2018-19	43196	26.1	7.8	606.154	394	160	390	0.19	13.91	31.37	300	0.21	170	NA	FIT

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33	GADHAWAD	Bore Well	2016-17	29.03.2017	27	6.9	1553.85	1010	240	340	0.193	33.234	NA	300	0.141	NA	NA	FIT
34	GADHAWAD	Dug Well	2016-17	29.03.2017	27	7.5	1430.77	930	290	260	0.238	39.857	NA	320	0.181	NA	NA	FIT
35	GADHAWAD	Dug Well	2017-18	15-02-2018	27	8.1	587.692	382	290	315	1.17	6.113	10.92	250	0.01	175	NA	FIT
36	GADHAWAD	Bore Well	2017-18	22-08-2017	24.5	7	641.538	417	350	290	0.437	1.595	39.028	840	0.104	130	NA	UNFIT
37	GADHAWAD	Dug Well	2018-19	43234	24.8	8	570.769	371	200	240	0.79	40.37	46.91	270	0.13	75	NA	FIT
38	GADHAWAD	Bore Well	2018-19	43235	26.5	7.3	1420	923	190	230	0.63	42.91	123.48	480	0.13	95	NA	FIT
39	GANGAPUR	Bore Well	2016-17	23.03.2017	27	7.1	1630.77	1060	330	330	0.119	40.703	NA	340	0.255	NA	NA	FIT
40	GANGAPUR	Dug Well	2016-17	23.03.2017	27	6.9	1400	910	310	250	0.219	44.437	NA	320	0.141	NA	NA	FIT
41	GANGAPUR	Bore Well	2017-18	23-08-2017	24.5	7	815.385	530	170	230	0.586	2.105	66.705	560	0.05	130	NA	FIT
42	GANGAPUR	Dug Well	2017-18	23-08-2017	24.5	7.2	875.385	569	170	260	0.566	7.106	68.79	190	0.098	190	NA	FIT
43	GANGAPUR	Dug Well	2018-19	43362	27	7.4	1338.46	870	230	300	0.36	36.6	97.53	280	0.066	175	NA	FIT
44	GATEGAON	Bore Well	2015-16	18.02.2016	27	8.1	1666.15	1083	200	270	0.554	17.64	NA	410	0.071	NA	NA	FIT
45	GATEGAON	Bore Well	2016-17	07.09.2016	27	7	1153.85	750	220	360	0.621	17.031	NA	120	BDL	NA	NA	FIT
46	GATEGAON	Bore Well	2017-18	42925	27	8.1	581.538	378	160	140	0.625	26.485	13.563	590	0.159	70	NA	FIT
47	GATEGAON	Dug Well	2017-18	43079	27	8.2	661.538	430	190	200	0.32	21.61	60.71	350	0.16	110	NA	FIT
48	HARANGUL	Dug Well	2016-17	07.09.2016	27	8.2	1169.23	760	160	410	1.147	20.007	NA	100	BDL	NA	NA	FIT
49	HARANGUL	Hand Pump	2016-17	07.09.2016	27	7.3	1107.69	720	100	320	1.098	5.642	NA	150	0.091	NA	NA	FIT
50	HARANGULBK	Hand Pump	2015-16	28.05.2016	27	8.2	1338.46	870	350	180	0.818	1.21	NA	400	0.162	NA	NA	FIT
51	HARANGULBK	Hand Pump	2017-18	28-10-2017	27	8.4	1520	988	255	425	1.165	38.53	64.74	590	0.19	175	NA	FIT
52	HARANGULBK	Bore Well	2017-18	13-03-2018	27	7.2	1609.23	1046	430	480	0.75	26.4	57.88	550	0.06	190	NA	FIT
53	HARANGULBK	Dug Well	2017-18	42833	27	6.6	1584.62	1030	290	300	1.133	9.544	60.093	350	0.198	60	NA	FIT
54	JAWALA BK	Hand Pump	2015-16	25.05.2016	27	8	3253.85	2115	200	1100	BDL	1.845	NA	310	0.125	NA	NA	UNFIT
55	JAWALA BK	Bore Well	2016-17	06.09.2016	27	7.5	1153.85	750	160	300	BDL	5.0162	NA	200	BDL	NA	NA	FIT
56	JAWALA BK	Hand Pump	2017-18	42895	24.5	8.3	1156.92	752	150	210	0.888	31.031	39.936	500	0.266	80	NA	FIT
57	KARSA	Bore Well	2016-17	06.09.2016	27	8.2	1384.62	900	100	420	1.091	15.811	NA	180	BDL	NA	NA	FIT
58	KARSA	Dug Well	2017-18	27-10-2017	27	8.2	1744.62	1134	270	200	0.91	10.93	32.37	190	0.128	200	NA	FIT
59	KARSA	Bore Well	2017-18	27-10-2017	27	8.1	655.385	426	180	25	0.64	0.8	6.64	110	0.092	60	NA	FIT
60	MAMDAPUR	Dug Well	2016-17	22.03.2017	27	6.8	1584.62	1030	310	270	0.108	37.354	NA	380	0.112	NA	NA	FIT
61	MAMDAPUR	Hand Pump	2016-17	22.03.2017	27	6.9	1553.85	1010	300	290	0.134	39.64	NA	350	0.112	NA	NA	FIT
62	MAMDAPUR	Dug Well	2017-18	42777	27	8	795.385	517	220	170	0.97	11.24	3.9	430	0.011	120	NA	FIT
63	MAMDAPUR	Hand Pump	2017-18	42777	27	8.2	1369.23	890	330	190	0.5	10.45	6.27	280	0.081	150	NA	FIT
64	MAMDAPUR	Hand Pump	2018-19	43321	24	8.2	1415.38	920	400	190	0.79	27.13	123.35	475	0.29	75	NA	FIT
65	NANDGAON	Dug Well	2016-17	30.03.2017	29	7.1	1384.62	900	160	270	0.289	17.335	NA	290	0.146	NA	NA	FIT
66	NANDGAON	Hand Pump	2016-17	30.03.2017	29	7.2	1523.08	990	190	320	0.438	42.404	NA	300	0.115	NA	NA	FIT
67	NANDGAON	Dug Well	2017-18	42924	24.5	8.4	1441.54	937	200	410	0.12	30.045	193.97	215	0.095	110	NA	FIT
68	NANDGAON	Hand Pump	2017-18	42924	24.5	7.5	1246.15	810	255	215	0.117	24.888	96.708	325	0.048	200	NA	FIT
69	NANDGAON	Dug Well	2017-18	21-03-2018	27	7.5	4549.23	2957	490	830	1.24	17.4	78.54	910	0.32	210	NA	UNFIT

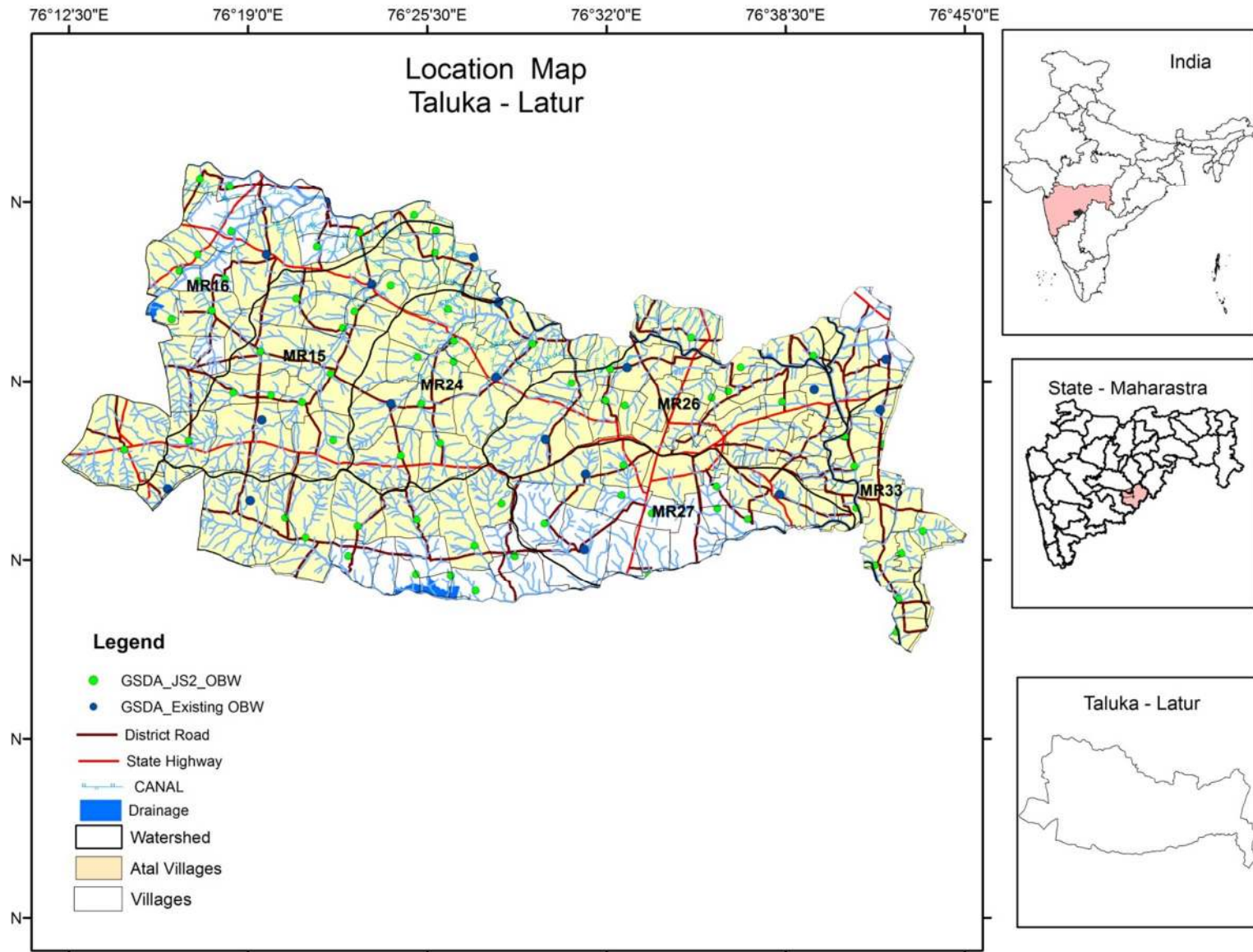
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70	NIWALI	Hand Pump	2015-16	25.05.2016	27	8.1	2838.46	1845	310	600	0.327	2.105	NA	630	0.258	NA	NA	UNFIT
71	NIWALI	Bore Well	2016-17	18.03.2017	27	6.8	1723.08	1120	240	320	0.325	14.654	NA	390	0.097	NA	NA	FIT
72	NIWALI	Dug Well	2016-17	18.03.2017	27	7.9	1646.15	1070	260	330	0.229	40.929	NA	350	0.115	NA	NA	FIT
73	NIWALI	Hand Pump	2017-18	43047	24.5	8.1	1369.23	890	280	250	0.783	38.47	55.654	280	0.154	80	NA	FIT
74	NIWALI	Dug Well	2017-18	43047	24.5	7.3	1307.69	850	350	250	0.813	43.092	27.762	300	0.176	90	NA	FIT
75	PAKHARSANGVI	Bore Well	2016-17	29.03.2017	27	6.8	1415.38	920	240	300	0.297	43.091	NA	280	0.092	NA	NA	FIT
76	WANJARKHEDA	Hand Pump	2015-16	12.05.2016	27	7.9	1592.31	1035	290	280	0.453	8.338	NA	410	0.205	NA	NA	FIT
77	WANJARKHEDA	Dug Well	2016-17	02.03.2017	27	7.5	1507.69	980	190	300	0.258	41.766	NA	320	0.25	NA	NA	FIT
78	WANJARKHEDA	Bore Well	2016-17	02.03.2017	27	7.6	1446.15	940	240	330	0.76	40.493	NA	260	0.142	NA	NA	FIT
79	WANJARKHEDA	Hand Pump	2017-18	43223	27	7	1970.77	1281	390	430	0.45	47.48	66.23	475	0.07	105	NA	UNFIT
80	WANJARKHEDA	Dug Well	2017-18	43223	27	7.1	1269.23	825	290	330	0.61	46.29	15.3	590	0.13	60	NA	UNFIT
81	WANJARKHEDA	Bore Well	2018-19	43382	25	7.2	140	91	80	55	0.63	17.96	30.39	180	0.09	90	NA	FIT
82	WANJARKHEDA	Dug Well	2018-19	43382	25	7.3	138.462	90	60	60	0.69	21.17	48.37	110	0.03	75	NA	FIT
83	MAMDAPUR	PWS	15-16	05.01.2016	27	8	923.077	600	50	50	0.843	32.033	NA	300	BDL	NA	NA	FIT
84	MAMDAPUR	Open Well	16-17	09.11.2016	27	8.1	1338.46	870	270	290	0.234	34.164	NA	260	0.116	NA	NA	FIT
85	MAMDAPUR	Open Well	17-18	43023	27	7.6	1307.69	850	210	270	0.463	35.382	58.155	270	0.173	110	NA	FIT
86	MAMDAPUR	on pump with	18-19	43451	25	7.2	1431	930	270	260	0.219	49.979	30.927	300	0.159	150	NA	UNFIT
87	MAMDAPUR	Hand Pump	19-20	43613	27	6.9	1538	1000	290	260	0.408	46.382	21.722	330	0.105	160	41	UNFIT
88	TAKLI	Bore Well	15-16	12.12.2016	27	7.9	1476.92	960	310	290	0.181	6.72	NA	320	0.248	NA	NA	FIT
89	TAKLI	Bore Well	16-17	21.07.2016	27	8.3	1273.85	828	230	260	0.35	11.416	NA	170	BDL	NA	NA	FIT
90	TAKLI	Bore Well	17-18	42843	29	7.5	1538.46	1000	240	270	0.439	42.404	64.748	360	0.148	120	NA	FIT
91	TAKLI	on pump with	18-19	43437	26	6.9	800	520	130	160	0.127	4.997	12.691	150	0.137	60	NA	FIT
92	TAKLI	Bore Well	19-20	43600	26	6.9	1246	810	200	230	0.292	18.898	31.653	250	0.127	130	29	FIT

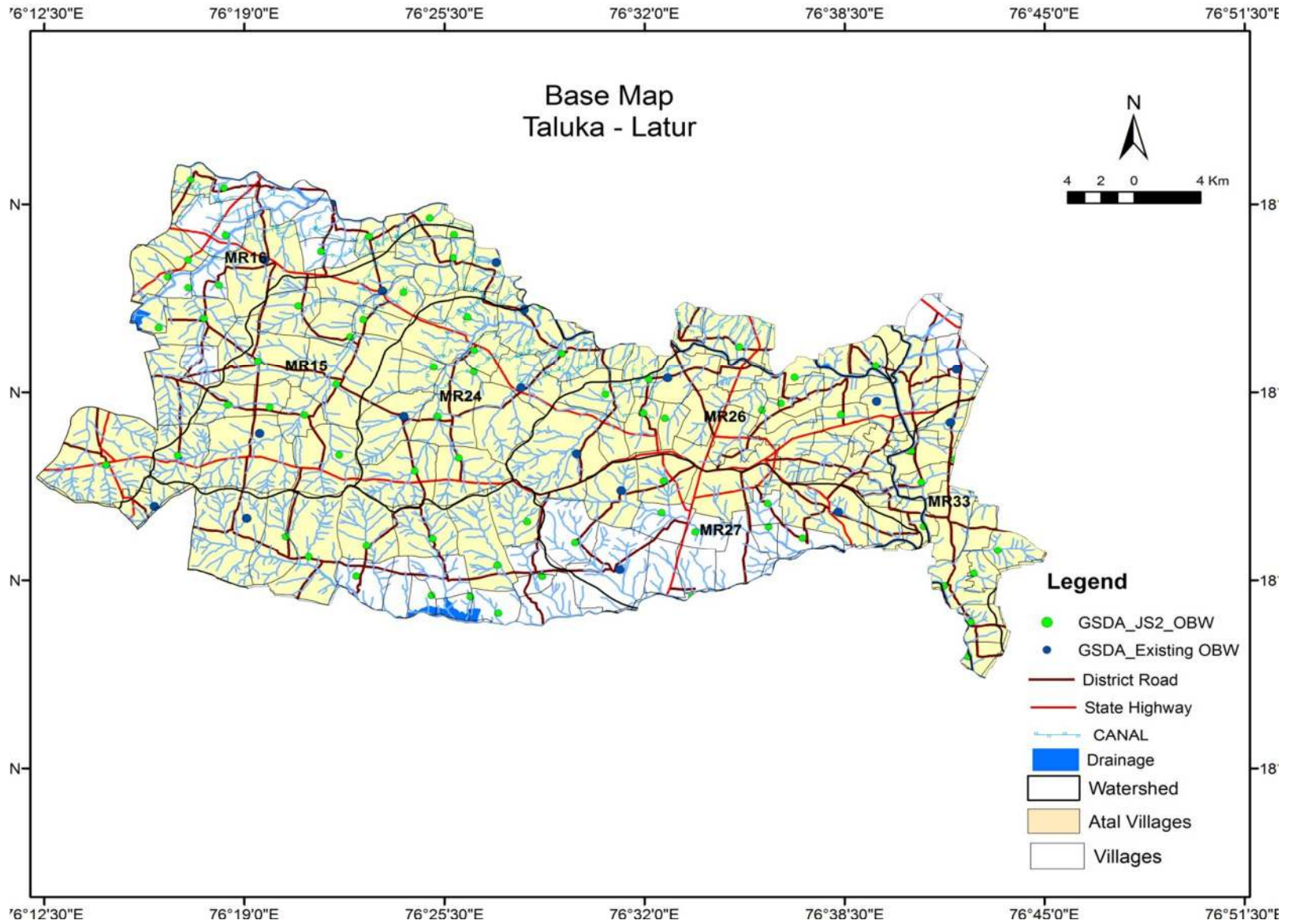
TABLE-03- Continued

WATER QUALITY (WQ) DATA OF MONITORING STATIONS-CGWB																
STATE-MAHARASHTRA, DISTRICT-LATUR, TALUKA-LATUR																
Sr.No.	Well No./Locaton	Well Type	Village	Date of Testing	Temp	EC ($\mu\text{S}/\text{cm}$)	pH									
								Ca	Mg	Na	K	HCO ₃	CL	SO ₄	NO ₃	F
1	W182356076323801		Latur Ring Road	5/21/2017		1467	7.7	123	91.45	42	1.2	309	170	29	410	0.14
2	W182400076140001		Murud	5/21/2017		1739	7.6	184	59.55	79	3.1	297	220	36	340	0.19
3	W182400076140001		Murud	5/21/2016		1651	7.8	102	83.52	75	1.7	185	319	229	36	0.18
4	W182400076140001		Murud	5/21/2015		1402	7.9	122	57.28	68	2.1	195	294	123	43	0.09
5	W182400076140001		Murud	5/21/2015												
6	W182400076240001		Murud-Akola	5/21/2017		1734	7.6	137	90.49	89	15.1	446	145	47	420	0.49
7	W182400076240001		Murud-Akola	5/21/2015		1096	7.9	74	56.01	71	3.01	397	110	111	33	0.29
8	W182400076240001		Murud-Akola	5/21/2016		1198	8.2	62	68.88	80	1.6	176	167	189	38	0.68
9	W182400076240001		Murud-Akola	5/21/2015												
10	W182426076343501		Latur Shani mandir	5/21/2017		1544	7.9	168	36.92	84	2.5	357	170	54	240	0.09
11	W182430076185001		Borgaon Kale	5/21/2017		1372	7.5	239	17.43	16	3	345	215	21	50	0.07
12	W182430076185001		Borgaon Kale	5/21/2015												
13	W182430076185001		Borgaon Kale	5/21/2015		1516	7.8	160	45.17	69	10.8	165	266	129	49	0.09
14	W182858076353001		Mahapur - Vasantnagar tanda	5/21/2017		759	8.5	51	26.2	119	2.2	375	48	13	52	0.29

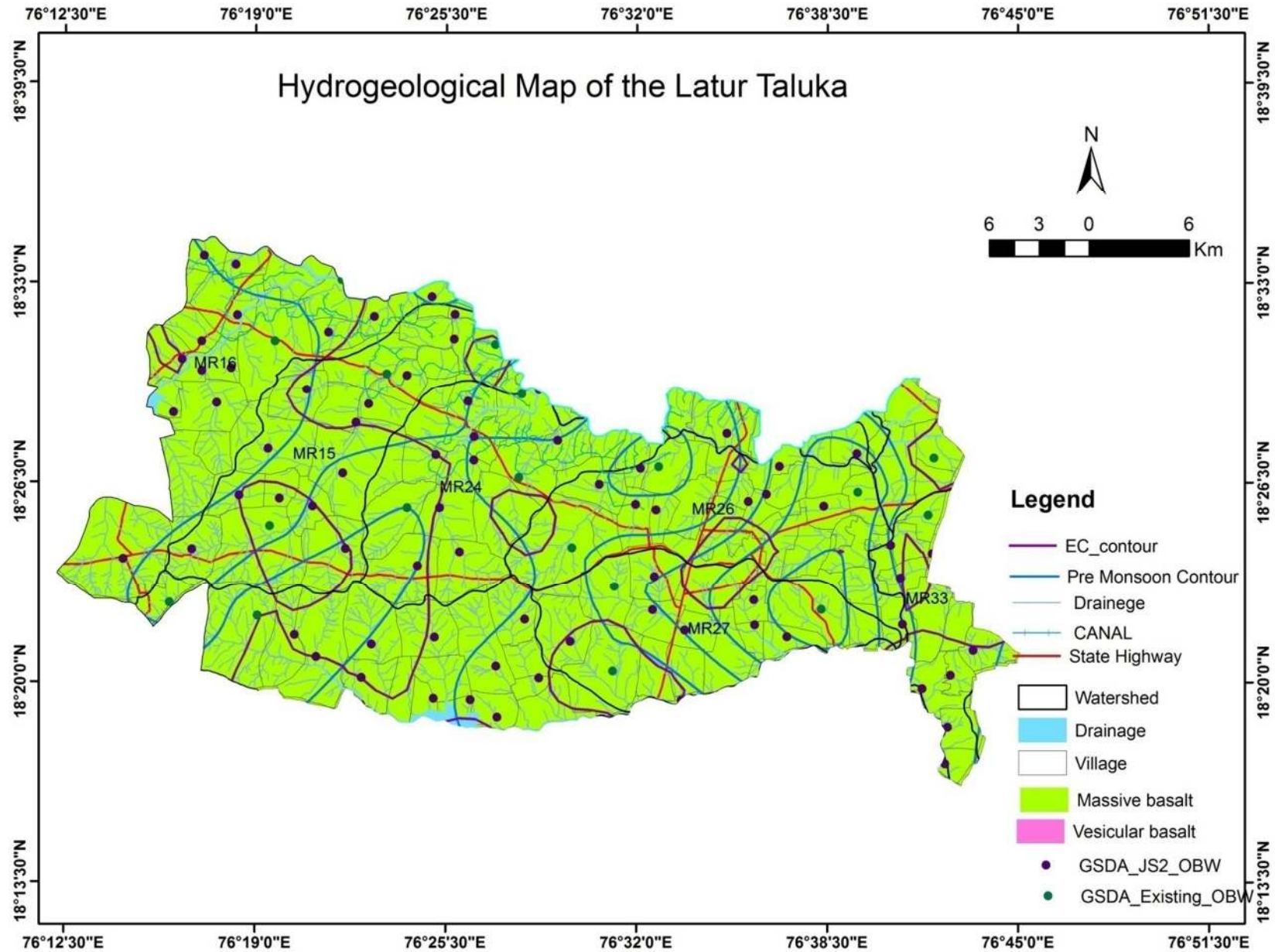
(Map-01 – Location Map)



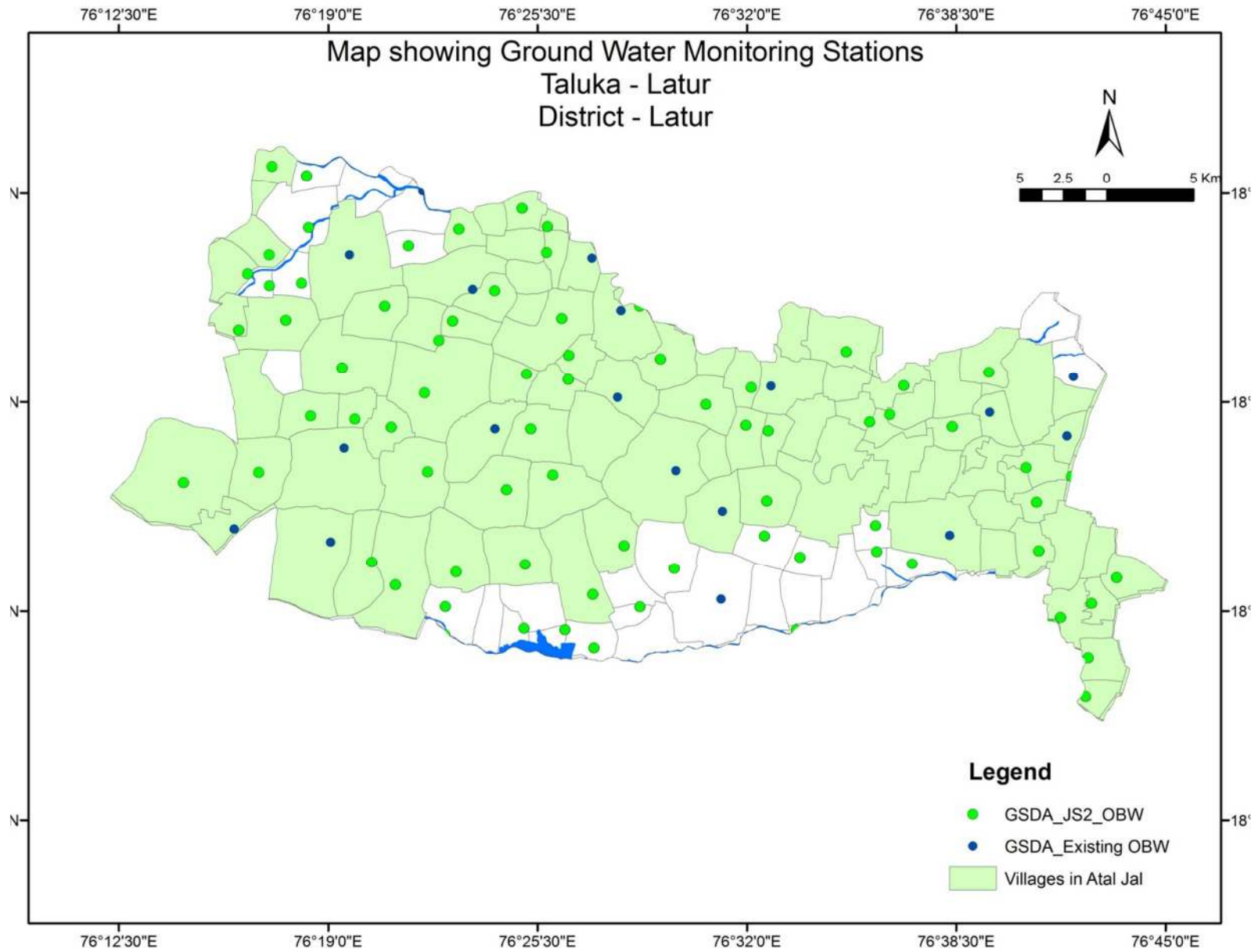
(Map-02-Base Map)



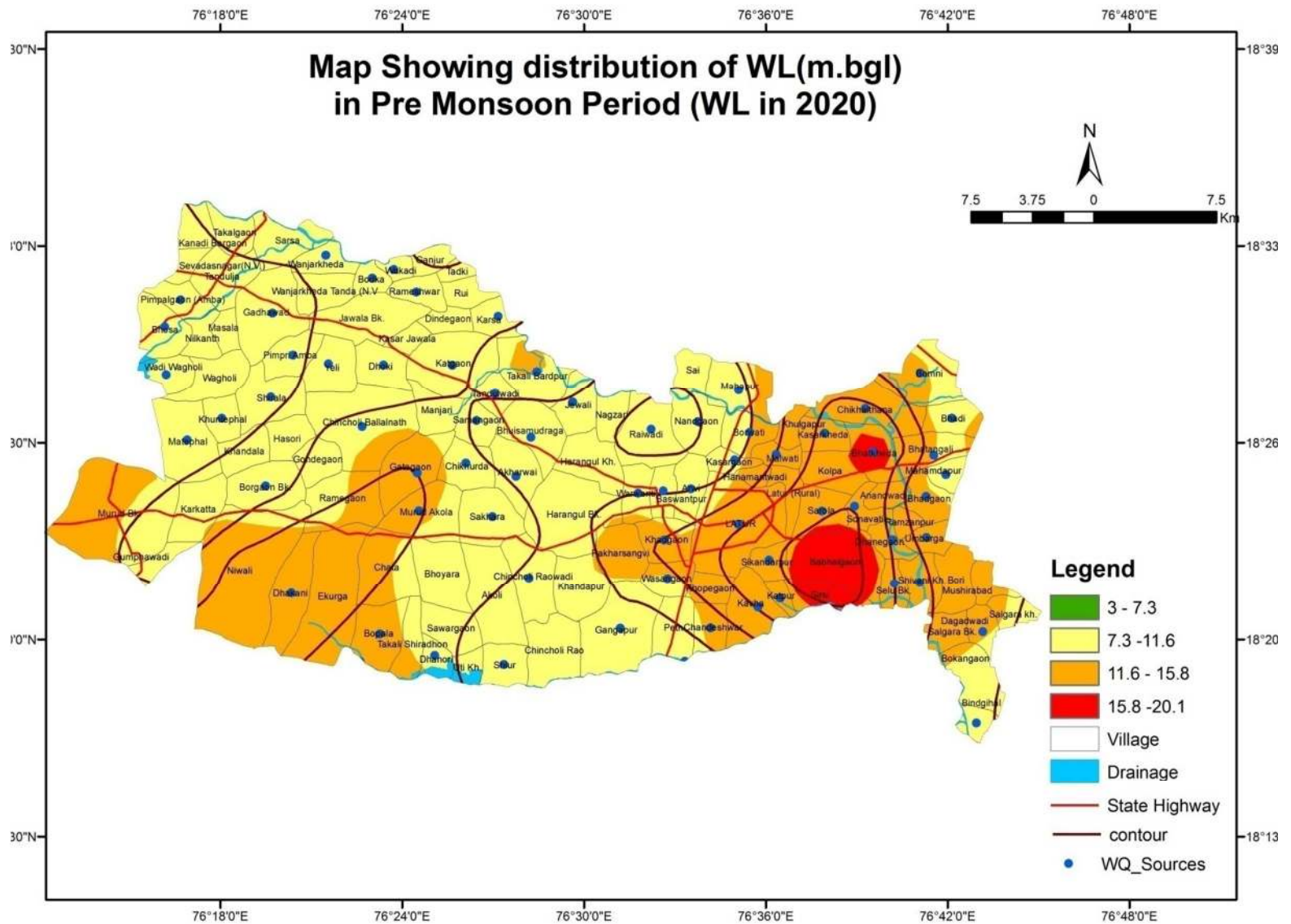
(Map-03-Hydrogeological Map)



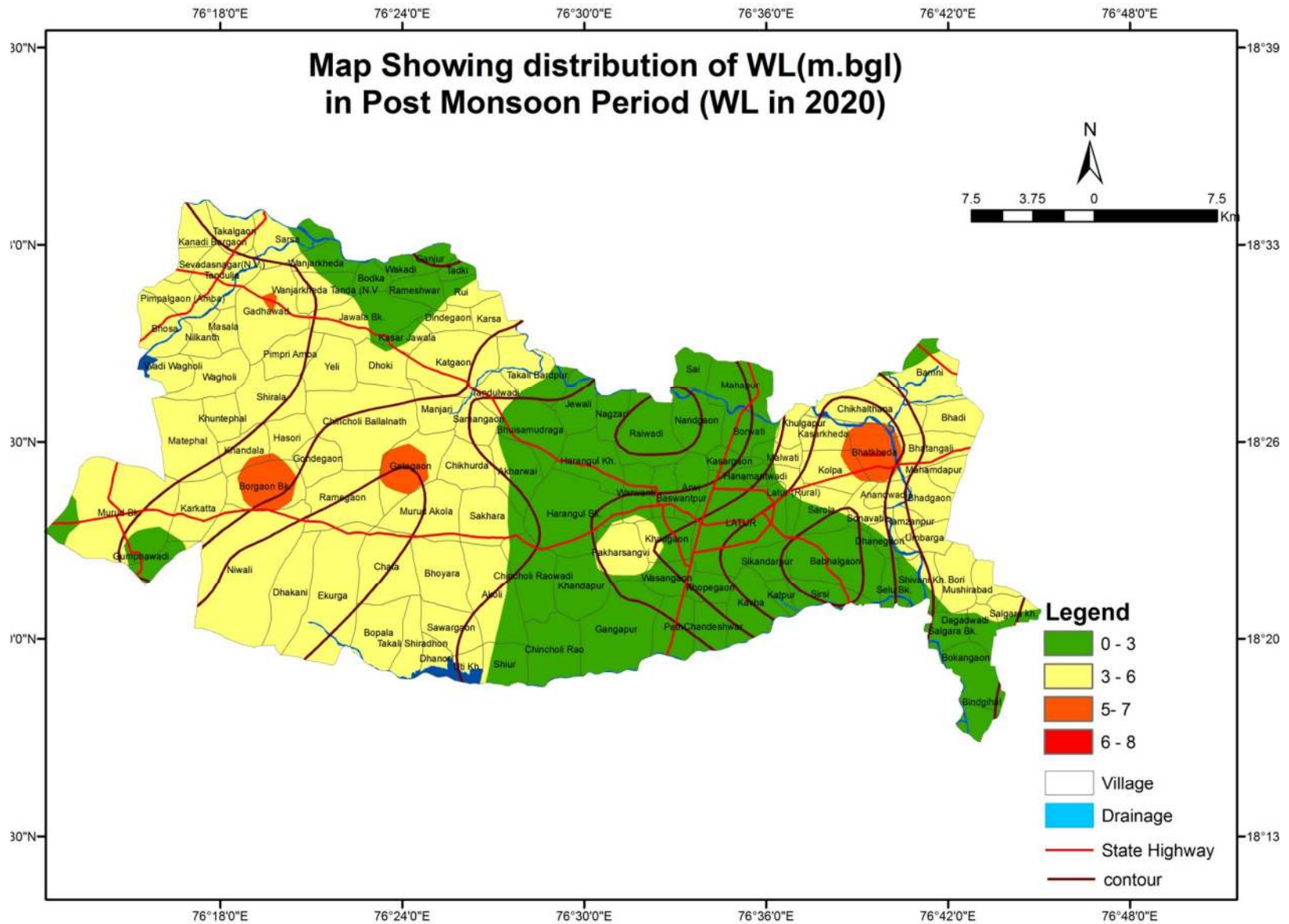
(Map-04-Locations of OBW Map)



(Map-05-Pre-Monsoon GWL Map)



(Map-06-Post-Monsoon GWL Map)



(Map-07-Pre-Monsoon Electrical Conductivity (EC) Map)

