

**OFFICE OF THE EXECUTIVE ENGINEER
JAL NIGAM YANTRIK KHAND
U.P. JAL NIGAM MEERUT**

COMPLETION PLAN OF TUBEWELL

(YEAR - 2013-2014)

NAME OF SCHEME - GHANAKHANDI W/S SCHEME **SRE** SPRING WATER LEVEL IN. MTRS - 4.00 M
 TOTAL NO. OF TUBE WELL PROVIDED IN THE SCHEME - 1 NO. SIZE OF BORE - 675 X 550 MM.
 LOCATION OF TUBE WELL- FARUKH KANYA HIGH. SEC. SCHOOL CAMPUS DATE OF COMPLETION OF T.W. - 16.10.2014
 NAME OF CONTRACTOR - M/S A.S.L ENTERPRISES MEERUT.

DEPTH B.GL METER	LITHOLOGICAL LOGS	EXECUTED ASSEMBLY	ABSTRACT
00			1 DRILLING STARTED ON 24.06.2014
06.10	SURFACE CLAY		2 DRILLING COMPLETED ON 08.07.2014
	FINE SAND		3 LOWERING ON 09.07.2014
33.54			4 DRILLING DEPTH 138.50 M
	CLAY		5 300 MM DIA HOUSING PIPE 48.81 M
42.08			6 300X200 MM DIA REDUCER 0.16 M
	FINE SAND		7 200 MM DIA BLIND PIPE 54.11 M
53.35	CLAY		8 200 MM DIA SLOTTED PIPE 33.71 M
57.92			9 DISCHARGE BY COMPRESSOR 1142 L.P.M
	FINE SAND		10 DISCHARGE BY O.P UNIT 1600 L.P.M
66.56	CLAY		11 PUMPING PLANT :- MAKE - WPL DISCHARGE - 1600 LPM HEAD - 52 M H.P. - 30 COLUMN PIPES - 150 MM DIA X 33 M
76.21	FINE SAND		
79.26	CLAY		
86.89	MEDIUM SAND		
100.00	FINE SAND		
103.06	CLAY		
106.23			
112.00	FINE TO MEDIUM SAND		
134.16	CLAY		
138.50			

YIELD TEST OF T/W BY COMPRESSOR

DATE OF TEST - 01.10.2014 STATIC W/L - 3.90 M TASTE OF WATER . SWEET

DISCHARGE BY V NOTCH	SAND CONTENTS IN PPM							REMARKS
	Height Of Water in cm.	Discharge in Lpm	starting	After 5 min	After 10 min	After 15 min	After 30 min	
06"	775	310	80	CL.	CL.	CL.	CL.	

YIELD TEST OF T/W BY O.P UNIT

(As Per IS - 2800)

DATE OF TEST - 16.10.2014 STATIC W/L - 3.66 M TASTE OF WATER - SWEET

ORIFICE TUBE HEIGHT IN INCH.	DISCHARGE IN L.P.M	SWL IN Mts.	RWL IN Mts.	DEPRESSION IN L.P.M	STARTING	SAND CONTENTS IN P.P.M						RECOMMENDATIONS.
						After 5 min	After 10 min	After 15 min	After 20 min	After 25 min	After 30 min	
5.00	1438	03.66	04.27	0.61	Tr.	CL	CL	CL	CL	CL	CL	Recommended discharge 1500 LPM at 0.91MT. depression. Pump should be run in bypass for 5 minutes before supply of water in rising man.
7.00	1638	03.66	04.57	0.91	10	CL	CL	CL	CL	CL	CL	
10.00	1923	03.66	04.94	1.28	60	10	Tr	CL	CL	CL	CL	
16.00	2543	03.66	05.64	1.98	150	70	10	CL	CL	CL	CL	
25.00	2994	03.66	06.50	2.84	250	100	30	CL	CL	CL	CL	

CHEMICAL TEST REPORT

(As Per IS - 10500)

DATE OF TEST - 20.10.2013 AGENCY - EE 1st DIV U.P Jal Nigam Mrt.

S. NO	SUBSTANCE OR CHARACTERISTIC	LIMIT			S. NO	SUBSTANCE OR CHARACTERISTIC	LIMIT		
		DESIRABLE	MAX.	ACTUAL			DESIRABLE	MAX.	ACTUAL
1	Colour,Hazen,Unit	5	25	—	9	Dissolved solids mg/L	500	2000	—
2	Turbidity,NTU	5	10	—	10	Calcium as(Ca) mg/L	75	200	—
3	PH value	6.5 to 8.5	No Relaxation	07.69	11	Magnesium* as (Mn), mg/L	30	100	—
4	Total Hardness as (CaCO ₃) mg/L	300	600	160	12	Copper as (Cu) mg/L	0.05	1.5	—
5	Iron as (Fe),mg/L	0.3	1.00	0.10	13	Sulphate as (SO ₄) mg/L	200	400	07.68
6	Chlorides as (Cl) mg/L	250	1000	21	14	Nitrate as(NO ₃) mg/L	45	100	03.98
7	Residual Free Chlorine,mg/L	0.2	—	—	15	Alkalinity,mg/L	200	600	260
8	Fluoride as (F),mg/L	1.0	1.5	0.130					

Note - All dimensions are in metres

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